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FOURTH BIENNIAL REPORT

[No. 15 IN SERIES]

OF

THE BOARD OF REGENTS

OF

THE UNIVERSITY OF MINNESOTA,

TO THE GOVERNOR,

FOR THE

FISCAL YEARS 1885 AND 1886, ENDING JULY 31ST.

TRANSMITTED TO THE LEGISLATURE AT THE TWENTY-FIFTH (FOURTH BIENNIAL) SESSION, 1886

ST. PAUL, MINN:
THE PIONEER PRESS COMPANY.
1887.

1870

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The present university "charter" was enacted by the legislature Feb. 18, 1868. The first annual report was that for 1868, transmitted to the legislature of 1869. The last annual report was for that of 1878. There have been accordingly eleven annual reports, and this fourth biennial report is No. 15 of the series.

The annual reports of progress of the geological survey of Minnesota will be found in the annual reports of the board of regents, beginning 1872. The annual report of the survey for 1881 was printed separately, no other reports of or to the board being printed in that year.

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THE UNIVERSITY OF MINNESOTA,
OFFICE OF THE BOARD OF REGENTS,
Nov. 1, 1886. }

SIR: In compliance with law I have the honor to forward herewith the ~~third~~ biennial report of the Board of Regents for the fiscal years 1885 and 1886, ending July 31st.

Very respectfully,

Your obedient servant,

HENRY H. SIBLEY,

President.

To the Hon. LUCIUS F. HUBBARD,

Governor of Minnesota.

THE BOARD OF REGENTS.

The board of regents is composed at this date of the following gentlemen:

The Hon. GREENLEAF CLARK, M. A., St. Paul; term expires in..... 1889
The Hon. CUSHMAN K. DAVIS, St. Paul; term expires in..... 1889
The Hon. JOHN B. GILFILLAN, Minneapolis; term expires in..... 1888
The Hon. KNUTE NELSON, Alexandria; term expires in..... 1887
The Hon. JOHN S. PILLSBURY, Minneapolis; term expires in..... 1887
The Hon. HENRY H. SIBLEY, St. Paul; term expires in..... 1888
The Hon. THOS. S. BUCKHAM, M. A., Faribault; term expires in..... 1888

AND EX-OFFICIO,

The Hon. LUCIUS F. HUBBARD, St. Paul,
The Governor of the State.
The Hon. DAVID L. KIEHLE, M. A., Minneapolis,
The State Superintendent of Public Instruction.
CYRUS NORTHROP, LL. D., Minneapolis,
The President of the University.

OFFICERS OF THE BOARD.

H. H. SIBLEY.....*President.*
D. L. KIEHLE.....*Recording Secretary.*
H. P. BROWN.....*Treasurer.*

EXECUTIVE COMMITTEE.

J. S. PILLSBURY.....*Chairman.*
CYRUS NORTHROP.....*Secretary.*

J. B. GILFILLAN, D. L. KIEHLE.

COMMITTEE ON COURSE OF STUDY.

C. K. DAVIS, GREENLEAF CLARK,
CYRUS NORTHROP.

COMMITTEE ON AGRICULTURAL FARM.

J. S. PILLSBURY, L. F. HUBBARD,
CYRUS NORTHROP.

COMMITTEE ON LIBRARY AND MUSEUM.

D. L. KIEHLE, GREENLEAF CLARK,
CYRUS NORTHROP.

AUDITING COMMITTEE.

THOMAS S. BUCKHAM, J. B. GILFILLAN.

THE GENERAL FACULTY.

The membership of the general faculty at the present time is as follows:

CYRUS NORTHROP, LL. D., President.

WILLIAM W. FOLWELL, LL. D.,
Professor of Political Science and Librarian.

JABEZ BROOKS, D. D.,
Professor of the Greek Language and Literature;
and in charge of the department of Latin.

NEWTON H. WINCHELL, M. A., Prof. Geol. and Min.,
State Geologist and Curator of the General Museum.

CHARLES N. HEWITT, M. D., Professor of Preventive Medicine.

JOHN G. MOORE, B. A.,
Professor of the German Language and Literature.

CHRISTOPHER W. HALL, M. A.,
Professor of Geology, Mineralogy and Biology.

JOHN C. HUTCHINSON, B. A.,
Assistant Professor of Greek and Mathematics.

JOHN S. CLARKE, B. A.....Assistant Professor of Latin.

MATILDA J. WILKIN, B. L., Instructor in English and German.

MARIA L. SANFORD.....Professor of Rhetoric and Elocution.

WILLIAM A. PIKE, C. E.,
Professor of Engineering and in charge of Physics.

JOHN F. DOWNEY, M. A., C. E.,
Professor of Mathematics and Astronomy.

JAMES A. DODGE, Ph. D.....Professor of Chemistry.

CHARLES W. BENTON, B. A.,
Professor of the French Language and Literature.

EDWARD D. PORTER, M. A., Ph. D.,
Professor of the Theory and Practice of Agriculture.

FRANKLIN STAPLES, M. D.,
Professor of the Practice of Medicine.

DANIEL W. HAND, M. D.....Professor of Surgery.

- WILLIAM H. LEONARD, M. D.,
Professor of Obstetrics and Diseases of Women
and Children.
- PERRY H. MILLARD, M. D.,
Professor of Anatomy and Physiology.
- THOMAS PEEBLES, B. A.,
Instructor in Mental and Moral Philosophy and Logic.
- O. J. BREDÁ,
Professor of the Scandinavian Languages and Literatures.
- GEORGE EDWIN MACLEAN, Ph. D.,
Professor of the English Language and Literature.
- CHARLES E. SMITH, M. D.,
Professor of Materia Medica and Therapeutics.
- GEORGE W. WOOD, M. D.,
Professor of Diseases of the Nervous System,
and of Medical Jurisprudence.
- CHARLES SIMPSON, M. D.....Professor of Pathology.
- CHARLES F. SIDENER, B. S.....Instructor in Chemistry.
- HENRY F. NACHTRIEB, B. S.....Assistant Professor of Biology.
- HARRY P. JUDSON, M. A.,
Professor of History and Lecturer on Pedagogics.
- FREDERICK S. JONES.....Instructor in Physics.
- WILLIAM R. HOAG, B. C. E.....Instructor in Civil Engineering.
- JOHN H. BARR, B. M. E..Instructor in Mechanical Engineering.

The financial condition of the university, as obtained from the records of the state auditor, is as follows:

1. The Permanent University Fund has been increased to the following:

In the year ending July 31, 1885	\$716,024 94
In the year ending July 31, 1886	851 526 75
Increase in two years.....	188,738 45

2. The revenue from the Permanent University Fund is named the General University Fund, and has been as follows:

In the year ending July 31, 1885	\$33,385 69
To which add balance from 1884.....	6,473 61
Annual appropriation for 1885.....	36,000 00
Aggregate for 1885	<u>\$75,859 30</u>

In the year ending July 31, 1886	44,156 83
Annual appropriation for 1886.....	35,000 00
	<hr/>
Aggregate for 1886	\$79,156 83
	<hr/>
Total revenue for two years	\$155,016 13

DISBURSEMENTS.

For support of university in 1885.....	\$72,140 08
For support of university in 1886.....	71,357 71
Fees to county treasurer, etc	483 81
Balance	11,034 53
	<hr/>
	\$155,016 13

By statute of 1881, a fund for the erection of new buildings was provided for, amounting to \$180,000, to be expended in sums of \$30,000, in each of the years 1881, 1882, 1883, 1884, 1885, and 1886. The appropriation for the two years first named could not be drawn from the state treasury, there being no money on hand applicable to the object, and the work of construction was necessarily delayed. Since then the gymnasium and hall for military instruction, and the building devoted to mechanics arts and physics have been completed. There remains of the appropriation undrawn the sum of \$88,280, but the board, finding it impossible to comply with the terms of the act, which required the erection of five separate buildings with the amount set apart for that purpose, and deeming it a duty not to exceed the expenditure authorized by the legislature, has decided not to proceed further in the construction of the other buildings specified in the act, until it has submitted the whole question through your Excellency. to the legislature at the approaching session. To meet the requirements of the university, a larger and more expensive class of structures than those originally contemplated must be provided for, and after mature consideration, the board has fixed upon \$150,000 as the minimum requisite, in addition to the amount unexpended, to erect the three edifices, to-wit: the Library, Science Hall, including the Museum, and the Observatory; and they respectfully ask, if consistent with your views, that you will embody in your message an earnest recommendation to the legislature that the sum specified be appropriated during the coming session, so that the much needed buildings may be contracted for early in the spring, and pressed to speedy completion.

Your Excellency is respectfully referred to the accompanying report of the president of the university, for details in the premises.

The great State of Minnesota can not, with credit to herself, allow her chief educational institution to lag behind those of her sister states, for the want of the means and appliances necessary to place her in the front rank of the universities and colleges of the Northwest. Wisconsin, Michigan, Iowa and other states have set her a noble example of liberality in that direction. The legislature of Minnesota has always met the recommendations of the board of regents in a generous spirit, and if the appropriation specified should be made, the board feels assured that the buildings thus provided for will be adequate to meet the demands of the institution for many years to come, and afford every facility to students in all departments of higher education.

The board also respectfully request your Excellency to recommend such legislation as will bestow upon the president of the university, who is now *ex-officio*, a member of the board of regents, the right to vote at the meetings of the board, to which he is not now entitled by law.

The board takes great pleasure in testifying to the very satisfactory progress made in the university, under the direction of the accomplished president, aided by a faculty composed of instructors of unsurpassed ability and scholarship. They have labored under many disadvantages, caused by a want of sufficient space and other appliances, all of which will be remedied when the buildings contemplated shall have been completed, ready for occupancy, and the board confidently looks forward to that period as a new departure in the history of the university, with a certainty that thenceforward it will assume a position of equality with the leading educational agencies of the country.

THE LIBRARY.

The accompanying report of the librarian shows the number of accessions since the last report, by purchase, to be 1,528 volumes; by donation, 634 volumes; total, 2,162 volumes. A list of the donors, to whom the usual acknowledgment has been transmitted, is given. The report also contains a list of the periodicals supplied, by purchase and gifts.

The attention of the board is asked to the following communi-

cation of the librarian accompanying the report, containing suggestions as to the increase of the library in general, desiderata for the new building, and the development of the library after its erection, and some expenditures thought to be immediately necessary.

THE UNIVERSITY OF MINNESOTA, }
 Sept. 17, 1886. }

President Northrop:

In connection with a report of the library for the biennial period ending in 1886, I submit the following communication, containing memoranda and suggestions toward the enrichment of the library.

May I ask you to lay the same before the board of regents and ask that they receive consideration, notwithstanding no such communication has been called for? My interest in the library, my desire to see its usefulness increased, and my belief that action can not long be deferred, may, I trust, be regarded as a sufficient excuse for intruding my opinions.

Very respectfully yours,

WILLIAM W. FOLWELL, *Librarian.*

THE UNIVERSITY OF MINNESOTA, }
 September, 1886. }

To the Honorable, the Board of Regents:

The high importance of the library, as part of the equipment of the university, has, from its foundation been assented to by your honorable body, and the expenditures have been, relative to available means, fairly liberal.

This importance has increased with the lapse of time and the development of the institution, and the period has arrived when, it is respectfully submitted, the further enrichment of the library should receive special consideration at your hands.

Among the reasons for this, are:

First—A few years ago our faculty was small, and occupied principally in instructing a large body of low-grade students in elementary branches. There was no time for, nor much necessity for, wide reading. At the present time we are a large faculty instructing real college students in a great variety of advanced studies, and several professors are partly occupied with graduate students in special investigations. Books are now an

absolute necessity. If the library does not furnish them, professors must purchase such as their moderate incomes will permit, after supporting their families.

Some of these graduate students come from other colleges. Last year we had on our rolls men from Yale, Amherst, Bowdoin, Beloit, Iowa, etc. To have these men find us unacquainted with and unprovided with leading books in philosophy, economics, history, politics, etc., is a humiliation not easy to endure.

The increase of the library by several thousand volumes is indispensable both to our usefulness and our good repute.

Second—In some departments of learning a book ten years' old is simply a curiosity. In all scientific departments this is notoriously true, and the fact holds in a degree in mathematics, political science, philology, the modern languages, and even in the classics. A college professor who does not see, read and utilize some of the new books is in a ridiculous situation. Our library needs at once to be stocked with modern books.

Third—The extension of the so-called "historical method" has revolutionized our methods of instruction. A generation ago the teacher inculcated the doctrines of one book—his text-book: to-day he opens the literature of the subject and sends his pupils in troops to the library to consult the books of many authors, in many languages. The value of books and how to use them are generally felt, if not clearly understood, by modern students. This fact is a great stimulus to professors who understand that they can not be comfortable if unacquainted with the books which they know their students to be consulting.

Fourth—A complete revolution in library management. This may be illustrated by a comparison of two libraries.

1. ———COLLEGE LIBRARY IN 1856.

A mass of volumes, piled up without order, in a remote room, ill-lighted, never warmed, largely old theological books from ministers' libraries. There is no catalogue or list of any kind. Once a week the Latin professor opens the library. On rare occasions a curious and enterprising student looks in. If he wants a book he is welcome to it, if he can find it by rummaging the dusty shelves. At the expiration of thirty minutes the key is turned. There was no such probability as that a student would ever be referred to the library; the notes of his text-book were the limit of his investigations.

That library—a pretty fair type of small college libraries thirty years ago, was simply a useless, but respectable, appendage; but the statement in the catalogue that “the library contains ——— thousand volumes, and large additions are soon expected,” had an attractive and assuring ring.

2. COLUMBIA COLLEGE LIBRARY IN 1886.

There is a special library building lately completed, comprising reading rooms, ample administration rooms, rooms for the use of investigating students, and storage for many thousands of volumes.

The present number of books is 80,000, and there is a large collection of current periodicals.

To manage and handle this modest collection of 80,000 volumes (and a large percentage of them are “dead matter”), Mr. Melvil Dewey, the chief librarian, on a full professor’s salary, controls the services of thirty-one paid assistants constantly occupied.

The library is open throughout the day and evening. A person entitled to the use of the books can at any moment have all the resources of the library placed at his disposal. The chief librarian is an expert bibliographer and not a mere clerk, or book-keeper. It is his business, and that of his assistant librarians (six in number), to know what are the principal authorities in the main departments of learning; that is their profession, just as it is the profession of a mineralogist to know minerals, or an entomologist to know insects.

The librarian is a professor and gives courses of instruction in library use and economy. He is able and ready to advise students and investigators in regard to the literature of many subjects.

There are many much larger American college libraries, but the one here named best illustrates the plan of an ideal modern library.

The ideal library is not a mere collection of books, it is books PLUS skilled hands and brains to discover and record the contents of books and put them instantly before the eyes of busy men. The modern library is a perennial “digest” of book knowledge. It involves a large proportionate expenditure for administration with the purpose of converting mere dead volumes into live books.

Such are the principal reasons why your honorable body are asked to entertain the subject of developing the library. It need hardly to be said that a young college not yet sufficiently endowed can not be expected to undertake to operate the system of Columbia College with its immense revenues. Still the example of Columbia, already followed by other colleges, shows the line of advance, and illustrates well the idea of the modern library. The rate of progress must depend on resources. To expect a considerable development of the library when the new building shall be ready is thought not to be unreasonable.

II.

In view of the erection of the new building, which ought not to be delayed, the following memoranda relative (1) to the building itself, and (2) administration, are submitted:

1. To secure abundant space and complete interior appliances, the exterior should be made severely plain. Economy and good taste also suggest this.
2. There should be a great reading room, amply lighted, in which should be kept all reference books, and a large part of the "live" books, mostly in cases open to readers.
3. There should be another room for newspapers and periodicals.
4. Storage for old and "dead" books should be provided in what is known as the "stack plan."
5. Some special collections of books should be placed in separate rooms for "seminary" work.
6. There should be some small rooms or compartments for the use of persons making special investigations.
7. "Administration rooms" will be added, of course.
8. Some libraries find it an economy to have a printing office and a bindery.
9. The building should have the completest outfit of speaking tubes, electrical bells, "lifts" and "runways," to economize labor.

But a building, however elaborately equipped, does not make a library. A building stored with the best and costliest of books does not make a library. There must be a sufficient force of skilled librarians and other assistants. Upon the opening of the new building the minimum force should be —

1. One chief librarian, who may for a time also occupy a professor's chair.
2. Two assistant librarians; one to select, order and receive books; another to catalogue and shelve books.
3. One clerk to issue books and keep the accounts.
4. A janitor.
5. One messenger — a boy.

This force would need to be reinforced when collections increased and readers multiplied.

The salaries of such a force will not be less than \$3,500 a year.

Fuel, lights, repairs and other current expenses will amount to at least \$1,000. The purchasing fund could not with decency be less than \$3,000 and ought to be \$5,000 a year. At a minimum \$7,500 a year will be the cost of maintaining the library on a modest scale.

This estimate does not contemplate swelling out into a great public library of hundreds of thousands of volumes, but only a college library of limited size and range.

III.

The foregoing memoranda (under II) look to the future development of the library. Attention is also asked to a few immediate needs.

1. The immediate re-establishment of the stated purchasing fund, and raising it to \$3,000, which may include the three hundred dollars for periodicals, now a separate appropriation.

No library can grow symmetrically without a stated purchasing fund. Many valuable works are published serially and some can only be had by subscription.

Bargains and chances to secure rare books and sets of books and periodicals slip away while waiting for action on special requisitions. A small fund should be always at the disposal of the librarian to nail bargains. Spasmodic purchases overwork the librarians at times, to leave them at other times less fully employed.

By the device adopted last year, with the permission of the executive committee, of moving books rarely called for to the back rooms, our main storage room can still accommodate a few thousand volumes, with little or no classification on the shelves,

however. There is no necessity to stop buying, and the need of buying is pressing. The completion of some sets, and the purchase of others entire is greatly desired by professors and students.

2. A small expense fund should be placed at the disposal of the librarian to pay freights, cartages, express charges and occasional services.

3. A stated annual appropriation in some form should be made for repairing and binding. We have a large number of unbound and damaged volumes, useless and deteriorating. No books have been bound in three years.

4. Additional assistance is now absolutely necessary to efficiency. The equivalent of one more person's time is necessary to carry on the usual work. If we follow our custom of printing the titles of our accessions in the forthcoming report of the board, it will be necessary to employ one other person for some weeks to prepare the copy and read the proof sheets.

5. The great economy of purchases made by members of the faculty and the librarian in person can not have escaped the notice of the board. Buying through agents and sub-agents absorbs a considerable percentage of the funds. The suggestion is therefore submitted that the librarian be authorized to visit one or more of the principal book markets once in each year. The opportunity to select books and bindings will increase the value of the collections.

6. The formation of a library council to regulate the disbursements of the purchasing fund make up the list of periodicals, and advise in general as to the management and increase of the library is finally suggested for consideration. This plan has been found to work well in Cornell University. The council might be composed of:

1. The president of the university. 2. The chairman of the executive committee. 3. Two members of the faculty. 4. The librarian.

These recommendations would be put into effect by the adoption of the following resolutions:

Resolved, (1) That there is hereby appropriated and placed at the disposal of the committee the sum of \$2,000 to purchase books and periodicals for the library in the university year 1886-87, and each year thereafter, until otherwise ordered by this board.

(2) That there is hereby appropriated and placed at the dis-

posals of the librarian the sum of \$300 to purchase books in emergencies advantageously, in the university year 1886-87, and in each year thereafter until otherwise ordered by this board.

(3) That there is hereby appropriated and placed at the disposal of the librarian the sum of \$300 for repairing and binding books and periodicals.

(4) That the librarian be authorized to employ, under the direction of the executive committee, additional help, not to exceed in amount the time of one person.

[Such work can be done by students, or others, by the hour; 15 cents for common labor, 20 cents for clerical work.]

(5) That the librarian be authorized, under direction of the executive committee, to visit one or more book markets once in each year.

GEOLOGICAL SURVEY.

I submit herewith the thirteenth annual report of the state geologist, for the year 1884, and the fourteenth annual report, for the year 1885, *vide* Supplement II. During the summer of 1886, the work of the survey has been carried on mainly in the extreme northern part of the State. Three geological parties, with equipment for field observations, have been engaged a part of the past summer, and two throughout the season. The region examined is occupied entirely by the crystalline and schistose rocks of the pre-primordial age, and embraces the rocks that have within a few years been productive of large amounts of iron ore within the limits of the State. The origin, quality, extent and accessibility of this ore have been one of the chief objects of research by the survey, and it is confidently expected that when the work is finished and published the iron resources of Minnesota will be found to equal, if not exceed, those of any other state in the Union.

The scientific results of this investigation, united with those of the three seasons formerly devoted by the survey to this part of the State, will be prepared for publication as soon as possible.

The cost of the season's work, in excess of what has generally been expended in one season, has been about \$3,400. This includes some microscopic lithological work done during the season at the university.

I also submit herewith the report of the professor of agriculture in charge of the experimental farm, for the years 1883-1885 (*vide* Supplement I).

TREASURER'S REPORT.

REPORT OF R. A. DAVISON,

*Treasurer of the Board of Regents, for the Fiscal Year ending
July 31, 1885.*

		CURRENT EXPENSE.		
			DR.	CR.
1884.				
Aug.	1.	To balance from last statement.....	\$24,921 17	
"	6.	To cash received from state treasurer.....	2,832 64	
"	20.	To cash received from state treasurer.....	1,800 00	
Sept.	5.	To cash received from state treasurer.....	1,609 12	
"	16.	To cash received from state high school board for clerical work	79 88	
Oct.	1.	To cash received from state treasurer.....	6,830 21	
"	30.	To cash received from state treasurer.....	5,475 48	
Dec.	5.	To cash received from state treasurer.....	6,916 93	
"	10.	To cash received for wood sold.....	4 50	
1885.				
Jan.	8.	To cash received from state treasurer.....	4,345 00	
Feb.	7.	To cash received from state treasurer.....	4,345 00	
Mar.	16.	To cash received from state treasurer.....	7,828 37	
April	8.	To cash received from state treasurer.....	7,673 22	
"	30.	To cash received from state treasurer.....	5,923 99	
June	1.	To cash received from state treasurer.....	7,742 77	
July	9.	To cash received from state treasurer.....	8,817 35	
"	31.	To balance from account students' fees	85 00	
1885.				
Jan.	9.	By voucher returned to state auditor, drawn in error from current expense ac- count, should be heating apparatus ac- count		\$2,000 00
July	31.	By balance from apparatus account.....		430 05
"	31.	By balance from chemical laboratory ac- count		673 65
"	31.	By balance from college of agriculture ac- count		9,366 88
"	31.	By balance from employe's account		6,039 63
"	31.	By balance from incidentals account.....		2,440 46
"	31.	By balance from heating and fuel account..		2,790 82
"	31.	By balance from library account.....		1,951 64
"	31.	By balance from repairs account		262 84
"	31.	By balance from salaries for instruction.....		41,250 00

July 31.	By balance from workshop account.....	\$34 74
" 31.	By balance from signal service station account.....	189 35
" 31.	By balance from medical department.....	200 06
" 31.	By balance to new account.....	29,600 51
		<hr/>
		\$97,230 63 \$97,230 63
1885.		
Aug. 1.	To balance.....	<u>\$29,600 51</u>

SALARIES FOR INSTRUCTION.

1884.		No. of Cert.	CR.
Aug. 21.	By paid Cyrus Northrop, advanced on salary	6	\$1,800 00
" 30.	By paid August pay roll.....	9	200 00
Sept. 30.	By paid September pay roll.....	39	3,770 00
Oct. 31.	By paid October pay roll.....	46	3,770 00
Nov. 26.	By paid November pay roll.....	64	3,770 00
" 26.	By paid W. A. Pike, extra salary.....	65	100 00
Dec. 20.	By paid December pay roll.....	73	3,770 00
1885.			
Jan. 31.	By paid January pay roll.....	82	3,770 00
Feb. 5.	By paid W. A. Pike for extra work ...	90	150 00
" 28.	By paid February pay roll.....	113	3,820 00
Mar. 31.	By paid March pay roll.....	127	3,795 00
April 30.	By paid April pay roll.....	135	3,795 00
May 1.	By paid H. F. Nachtriebe for April....	136	200 00
" 30.	By paid May pay roll.....	162	3,895 00
June 23.	By paid John F. Downey, additional..	180	150 00
" 30.	By paid June pay roll.....	184	3,895 00
July 8.	By paid C. W. Hall, additional pay....	200	50 00
" 10.	By paid C. W. Benton, additional pay	203	100 00
" 23.	By paid J. C. Hutchinson, add'l pay..	212	150 00
" 14.	By paid W. A. Pike, additional pay...	208	100 00
" 31.	By paid July pay roll.....	218	200 00
" 31.	To balance carried to account current expense.....		\$41,250 00
			<hr/>
			\$41,250 00 \$41,250 00

GEOLOGICAL SURVEY.

1884.		No. of Cert.	CR.
Aug. 1.	By balance from last statement.....		\$39,267 10
" 11.	By paid H. V. Winchell, work in mu- seum	4	22 00
" 23.	By paid N. H. Winchell, sundry ex- penses	5	82 05
" 30.	By paid H. V. Winchell, sending re- ports, etc.....	8	35 00

		No. of Cert.	CR.
1884.			
Aug. 30.	By paid pay roll for August	9	\$175 00
Sept. 9.	By paid Geo. L. Dickinson, museum trays	22	5 00
" 19.	By paid L. Lesqueroux, labor and expenses	31	51 60
" 29.	By paid Wm. Howling, mounting specimens	38	30 10
" 30.	By paid pay roll for September	39	300 00
Oct. 15.	By paid H. V. Winchell, work in laboratory.....	42	25 00
" 31.	By paid pay roll for October.....	46	300 00
Nov. 18.	By paid N. H. Winchell, sundry expenses	49	20 93
" 29.	By paid pay roll for November	64	300 00
Dec. 20.	By paid pay roll for December.....	73	300 00
1885.			
Jan. 31.	By paid pay roll for January.....	82	300 00
Feb. 5.	By paid N. H. Winchell, sundry expenses	88	40 47
" 5.	By paid N. H. Winchell, sundry expenses	89	30 24
" 10.	By paid J. A. Dodge and C. F. Siden-er, extra labor.....	103	120 00
" 11.	By paid C. L. Herrick, sundry expenses	104	17 00
" 28.	By paid pay roll for February	113	500 00
Mar. 26.	By paid N. H. Winchell, petty expenses	121	46 93
" 31.	By paid pay roll for March.....	127	400 00
April 20.	By paid pay roll for April.....	135	400 00
May 4.	By paid O. W. Oestlund, April salary..	141	75 00
" 30.	By paid pay roll for May.....	162	375 00
June 3.	By paid S. M. Williams, merchandise	165	7 00
" 30.	By paid pay roll for June	184	375 00
July 1.	By paid H. V. Winchell, labor in June	186	75 00
" 1.	By paid N. H. Winchell, petty expenses	187	25 45
" 7.	By paid N. H. Winchell, expenses at New Orleans.....	196	101 92
" 11.	By paid Wm. Howling, mounting animals.....	205	28 00
" 23.	By paid W. S. Barrows & Co., animals	216	60 00
" 31.	By paid pay roll for July.....	218	594 00
" 31.	To balance to new account	\$44,484 80	
		<u>\$44,484 80</u>	<u>\$44,484 80</u>
1885.			
Aug. 1.	By balance.....		<u>\$44,484 80</u>

EMPLOYES AND WORKMEN.

1884.		No. of Cert.	Cr.
Aug. 30.	By paid August pay roll	9	\$75 00
Sept. 30.	By paid September pay roll	39	263 30
Oct. 31.	By paid October pay roll	46	275 00
Nov. 29.	By paid November pay roll	64	275 00
Dec. 20.	By paid December pay roll, part	73	150 00
" 31.	By paid December pay roll, balance...	73	125 00
1885.			
Jan. 31.	By paid January pay roll	82	275 00
Feb. 5.	By paid Jno. Nealin, assistant fireman	85	23 00
" 5.	By paid Jno. Nealin, assistant fireman	86	30 00
" 9.	By paid E. A. Cuzner, two months gardener	102	150 00
" 28.	By paid Jno. Nealin, assistant fireman for February	112	30 00
" 28.	By paid pay roll for February	113	350 00
Mar. 31.	By paid pay roll for March	127	340 00
April 1.	By paid Jno. Nealin, assistant fireman for March	130	30 00
" 8.	By paid R. A. Davison, salary as treas- urer from January, 1882, to Janu- ary, 1885	129	1,083 33
" 11.	By paid J. B. Gilfillan, salary as sec- retary for two years	133	600 00
" 25.	By paid D. L. Kiehle, salary as secre- tary for three months	134	75 00
" 30.	By paid pay roll for April	135	345 00
May 30.	By paid pay roll for May	162	345 00
June 16.	By paid W. W. Folwell, as librarian for 1884 and 1885	177	500 00
" 30.	By paid pay roll for June	184	295 00
July 1.	By paid W. H. Yattaw, June salary...	185	50 00
" 3.	By paid D. L. Kiehle, services as sec- retary	190	75 00
" 31.	By paid pay roll for July	218	280 00
" 31.	To balance carried to current expense account		\$6,039 63
			<hr/>
			<u>\$6,039 63</u> <u>\$6,039 63</u>

INCIDENTALS.

1884.		No. of Cert.	Cr.
Sept. 3.	By paid F. A. Johnson, clerical work, July and August	10	\$21 35
" 3.	By paid F. A. Johnson, envelopes bought	11	27 70
" 4.	By paid J. E. Gallow, help in cleaning buildings	13	50 00

1884.		No. of Cert.	CR.
Sept. 4.	By paid Bradner Smith Paper Co., stationery.....	15	\$6 75
" 6.	By paid Johnson, Smith & Harrison, printing.....	17	17 50
" 8.	By paid Baldwin Brown, carriage	19	5 00
" 9.	By paid Evening Journal, advertising.	21	17 00
" 11.	By paid Tribune Job Department, printing.....	24	16 50
" 15.	By paid C. D. Whitall & Co., stationery.....	27	3 00
" 16.	By paid Smith & Speedy, repairing papers.....	28	2 50
" 16.	By paid D. L. Kiehle, publishing commencement.....	29	146 00
" 17.	By paid Commercial Bank, sundry expenses.....	30	18 03
" 25.	By paid John A. Schlener & Co., merchandise.....	36	8 14
Oct. 13.	By paid Evening Journal, printing....	41	8 00
" 21.	By paid Pioneer Press Co., printing....	43	25 52
" 28.	By paid Wingate Bros., glass frame ...	45	1 25
Nov. 20.	By paid Hunter & Fowble, merchandise.....	53	24 15
" 20.	By paid Johnson, Smith & Harrison, printing.....	54	16 50
" 20.	By paid Johnson, Smith & Harrison, printing.....	55	44 50
" 21.	By paid J. E. Gallow, help cleaning agricultural hall.....	57	12 00
" 21.	By paid C. D. Whitall & Co., stationery, etc.....	58	19 00
" 26.	By paid Nelson, Tenney & Co., lumber.....	66	2 68
Dec. 10.	By paid Wm. W. Folwell, sundry expenses.....	72	7 44
1885.			
Jan. 10.	By paid Janney, Semple & Co., glass, etc.....	76	7 62
" 20.	By paid Wm. A. Pike, expense in seeing mechanical buildings.....	77	108 40
" 26.	By paid Ole Erickson, handling wood..	80	9 38
Feb. 5.	By paid W. F. Decker, sundry expenses.....	87	14 42
" 5.	By paid Auerbach, Finch & Van Slyck, merchandise.....	91	3 13
" 6.	By paid E. W. Pyle, oil and merchandise.....	93	16 13
" 6.	By paid MacClary & Quigley, material and labor.....	96	56 25

1885.		No. of Cert,	CR.
Feb.	6.	By paid Ariel Association, advertising	99 \$75 00
"	17.	By paid Folds & Griffith, matting, etc.	106 77 01
"	26.	By paid Martin Buttors, fixing wells, etc.....	107 7 50
"	27.	By paid J. H. Hagan, material and labor.....	110 11 80
"	28.	By paid W. F. Carr, petty bills.....	111 2 48
Mar.	5.	By paid Johnson, Smith & Harrison, printing.....	114 13 25
Feb.	4.	By paid E. D. Porter, hauling wood and work on campus.....	83 213 02
Apr.	1.	By paid W. F. Carr, stationery.....	128 1 00
May	5.	By paid Ory Bates, digging well, etc..	144 12 25
"	6.	By paid Johnson, Smith & Harrison, printing.....	145 11 00
"	6.	By paid Johnson, Smith & Harrison, printing.....	146 16 50
"	11.	By paid MacClary & Quigley, labor...	148 5 50
"	13.	By paid W. J. Dyer & Bro., repairing organ.....	149 5 00
"	16.	By paid Evening Journal, advertising.	151 8 00
"	16.	By paid E. W. Pyle, brooms, oil, etc..	152 6 90
"	22.	By paid Nelson, Tenney & Co., lum- ber.....	154 3 26
"	23.	By paid Kenyon & Lara, shades.....	155 18 00
"	28.	By paid Louis Dreka, diplomas.....	159 28 75
"	30.	By paid Jabez Brooks, paid for stamps	161 50 00
June	1.	By paid H. J. Smith & Co., picture frame.....	163 25 55
"	2.	By paid Bradner Smith Paper Co., stationery.....	164 22 50
"	3.	By paid Union Railway Storage Co., drain tile.....	166 2 63
"	23.	By paid C. D. Whitall & Co., mer- chandise.....	179 4 50
"	24.	By paid I. Monasch, work on diplomas	181 18 00
"	24.	By paid W. F. Decker, petty expenses	182 38 23
July	2.	By paid F. A. Johnson, blanks and printing.....	189 18 85
"	3.	By paid Tribune Job Printing Co., printing and binding.....	191 377 46
"	6.	By paid E. M. May & Son, refresh- ments on commencement day.....	193 157 00
"	7.	By paid Pioneer Press Co., advertising	197 80 60
"	7.	By paid A. C. Bausman, printing.....	199 114 00
"	9.	By paid C. H. DuBois, advertising.....	201 7 00
"	9.	By paid J. E. Gallow, help in cleaning.	202 7 75
"	11.	By paid W. F. Decker, extra labor.....	204 38 70

1885.		No. of Cert.	CR.
July 11.	By paid Danz orchestra, music, commencement	206	\$170 00
" 16.	By paid Mayhew Bros., merchandise..	209	12 80
" 23.	By paid Janney, Semple & Co., merchandise.....	210	12 58
" 23.	By paid Janney, Semple & Co., merchandise	211	6 25
" 23.	By paid Globe Publishing Co., advertising	214	29 00
" 23.	By paid St. Paul Dispatch, advertising,	215	15 00
" 3.	To balance carried to current expense account.....		\$2,440 46
			<u>\$2,440 46</u> <u>\$2,440 46</u>

LIBRARY.

1884.		No. of Cert.	CR.
Sept. 5.	By paid Mrs. Mary Bowen, work in library	16	\$31 35
" 8.	By paid J. C. Gilman, dusting books, etc.....	20	7 50
" 13.	By paid Lettie M. Crafts, work in library	26	17 10
" 19.	By paid Gustav E. Stechert, books.....	32	140 62
Nov. 18.	By paid W. C. Rowell, books.....	48	3 90
" 19.	By paid Gustav E. Stechert, books.....	50	25 20
" 19.	By paid Gustav E. Stechert, books.....	51	95 74
" 19.	By paid Gustav E. Stechert, books.....	52	90 80
" 22.	By paid Geo. W. Tryon, books.....	59	5 00
" 22.	By paid Gustav E. Stechert, books.....	63	4 25
Dec. 9.	By paid C. C. Pease, books.....	71	15 00
1885.			
Jan. 21.	By paid Commercial Bank, draft for books	78	6 25
" 21.	By paid Gustav E. Stechert, books.....	79	293 74
Feb. 5.	By paid Gustav E. Stechert, books.....	92	249 40
Mar. 30.	By paid Gustav E. Stechert, books.....	125	27 98
Apr. 11.	By paid Gustav E. Stechert, books.....	131	11 88
May 2.	By paid C. W. Moulton, work in library	137	5 70
" 5.	By paid Gustav E. Stechert, books.....	143	347 88
June 10.	By paid Yale College Library, books..	176	115 00
" 20.	C. J. Rockwood, draft sent to J. S. Clark.....	178	250 00
July 13.	By paid Lettie M. Crafts, extra labor..	207	14 80
" 23.	By paid Gustav E. Stechert.....	213	163 75
" 24.	By paid Lettie M. Crafts, extra work..	217	28 80
" 31.	To balance carried to current expense account.....		\$1,951 64
			<u>\$1,951 64</u> <u>\$1,951 64</u>

APPARATUS.

1885.		No. of Cert.	DR.	CR.
Feb. 6.	By paid C. A. Hoffman, photographic outfit.....	95		\$80 00
May 5.	By paid Young & Sons, transit and attachments	142		325 00
" 8.	By paid Wm. A. Pike, expressage paid.	147		7 00
" 16.	By paid Jauney, Semple & Co., micrometer.....	153		5 00
" 28.	By paid J. P. Gilmore, merchandise...	157		3 00
June 4.	By paid Wm. A. Pike, printing materials	168		10 05
July 31.	To balance carried to current expense account.....		\$430 05	
			<u>\$430 05</u>	<u>\$430 05</u>

CHEMICAL LABORATORY.

1884.		No. of Cert.	DR.	CR.
Sept. 29.	By paid J. A. Dodge, sundry expenses	37		\$153 35
Nov. 20.	By paid Geo. Huhn & Co., mdse.....	56		32 58
" 22.	By paid Eimer & Amend, chemicals...	60		157 24
" 22.	By paid C. T. Milligan, chemicals, etc.	61		39 60
" 22.	By paid Becker Bros., scales and weights	62		96 30
Dec. 6.	By paid Geo. Huhn, chemicals.....	70		15 32
1885.				
Feb. 7.	By paid N. W. Fuel Co., coke, etc.....	101		5 75
Mar. 28.	By paid Geo. Huhn, merchandise.....	123		19 99
Apr. 11.	By paid Geo. Huhn, merchandise.....	132		7 76
June 6.	By paid H. H. Molloy, instruments, etc.	169		56 00
" 6.	By paid McClary & Quigley, two cases.	170		11 00
July 6.	By paid James A. Dodge, chemicals, etc.....	194		21 01
" 6.	By paid James A. Dodge, chemicals, etc.....	195		127 71
" 6.	By paid Geo. Huhn, chemicals, etc....	198		14 04
1885.				
Feb. 2.	To students' fees in Chem. Lab. department		\$84 00	
July 31.	To balance carried to current expense account.....		673 65	
			<u>\$757 65</u>	<u>\$757 65</u>

COLLEGE OF AGRICULTURE ACCOUNT.

1884.		No. of Cert.	DR.	CR.
Aug. 8.	By farm pay roll for July	2		\$1,004 64
Sept. 10.	By paid Janney, Semple & Co., mdse...	23		20 80
" 20.	By paid E. D. Porter, investigating poisonous vegetation.....	33		197 90
" 20.	By paid farm pay roll for August	34		1,142 50
" 23.	By paid J. W. Hull, blacksmithing ...	35		46 25
Oct. 4.	By paid farm pay roll for September ..	40		915 72
Nov. 5.	By paid farm pay roll for October.....	47		943 98
" 28.	By paid farm pay roll for November...	67		862 39
1885.				
Jan. 10.	By paid Janney, Semple & Co., bas- kets, rope, etc.....	75		7 08
" 26.	By paid N. W. Fertilizing Co., 4 tons, at \$22.00	81		88 00
Feb. 4.	By paid farm pay rolls for December, 1884, and January, 1885	84		1,005 27
" 6.	By paid E. F. Sykes & Co., work and material	98		4 75
Mar. 6.	By paid J. M. Pottle & Co., mdse.....	115		65 50
" 9.	By paid Geo. Huhn & Co., mdse	116		69 47
May 2.	By paid farm pay roll for Feb., 1885..	138		396 67
" 2.	By paid farm pay roll for March, 1885	139		449 17
" 2.	By paid farm pay roll for April, 1885..	140		474 09
" 27.	By paid farm pay roll for May, 1885 ..	156		534 90
July 2.	By paid E. D. Porter, expenses, Farm- ers' Lecture Course.....	188		622 63
" 3.	By paid farm pay roll for June	192		596 87
1885.				
Feb. 4.	To cash for work by teams on campus		81 70	
July 31.	To balance carried to account current expenses.....		9,366 88	
			<u>\$9,448 58</u>	<u>\$9,448 58</u>

PROF. PIKE'S BOOK.

1884.			
Aug. 1.	By balance from last statement.....		\$81 86
1885.			
July 31.	To balance to new account	\$81 86	
		<u>\$81 86</u>	<u>\$81 86</u>

HEATING AND FUEL.

1884.			
Sept. 4.	By paid J. E. Gallow, tending heating apparatus	14	\$60 00
" 12.	By paid C. M. Douglass & Co., fuel....	25	239 94

1885.		No. of Cert.	DR.	CR.
Feb. 6.	By paid Armstrong & Truesdell, fuel..	94		\$402 24
" 27.	By paid Armstrong & Truesdell, fuel..	108		733 48
" 27.	By paid McMullen & Co., fuel.....	109		240 00
Mar. 12.	By paid Alex. Brunette, fuel	117		40 50
" 13.	By paid John Maddock, fuel.....	118		161 10
" 18.	By paid John Maddock, fuel.....	118		161 10
" 27.	By paid C. A. Smith, fuel.....	122		127 50
" 28.	By paid J. H. Larson, fuel.....	124		162 54
" 30.	By paid E. W. Pyle, oil, etc.....	126		2 70
May 28.	By paid Minneapolis Fuel Co., fuel ...	158		87 32
June 3.	By paid L. P. Hubbard, fuel.....	167		366 75
" 8.	By paid E. W. Pyle, oil, etc.....	171		5 65
July 31.	To balance carried to account current expense		\$2,790 82	
			<u>\$2,790 82</u>	<u>\$2,790 82</u>

WORKSHOP.

1884.				
Oct. 22.	By paid Janney, Semple & Co., tools, etc.....	44		\$32 24
1885.				
Feb. 13.	By paid J. R. Hofflin, 1 gallon cylin- der oil	105		2 50
July 31.	To balance carried to current expense account.....		\$34 74	
			<u>\$34 74</u>	<u>\$34 74</u>

STUDENTS' FEES.

1885.				
April 7.	To cash paid by students as fees		\$85 00	
July 31.	By balance carried to current expense account			\$85 00
			<u>\$85 00</u>	<u>\$85 00</u>

REPAIRS.

1884.		No. of Cert.	DR.	CR.
Aug. 7.	By paid J. A. Briggs, plastering and kalsomining.....	2		\$32 40
Sept. 3.	By paid Wheaton, Reynolds & Co., material	12		1 56
" 5.	By paid J. H. Hagan, labor and mate- rials.....	18		25 00
Dec. 1.	By paid M. W. Glenn, labor and ma- terials.....	68		35 05
" 3.	By paid C. A. Bicknell, mason work, etc	69		134 70

1885.		No. of Cert.	DR.	CR.
Feb. 6.	By paid E. T. Sykes & Co., plumbing, etc	97		\$25 44
May 16.	By paid E. T. Sykes & Co., materials..	150		8 69
July 31.	To balance carried to current expense account.....		\$262 84	
			<u>\$262 84</u>	<u>\$262 84</u>

BUILDING ACCOUNT.

1884.				
Aug. 1.	To balance from last statement	\$6,154 62		
" 6.	To cash received from state treasurer	3,000 00		
1885.				
Feb. 18.	To cash received from state treasurer	3,720 00		
July 31.	By balance brought from military building account.....			\$7,516 81
" 31.	By balance carried forward.....			5,357 81
			<u>\$12,874 62</u>	<u>\$12,874 62</u>
1885.				
Aug. 1.	To balance.....	\$5,357 81		

MILITARY BUILDING ACCOUNT.

1884.		No. of Cert.	DR.	CR.
Aug. 6.	By cash paid S. C. Cutter, on contract.	1		\$3,000 00
" 30.	By paid L. S. Buffington, services as architect.....	7		300 00
1885.				
Feb. 6.	By paid S. C. Cutter, balance on con- tract.....	100		3,720 00
May 29.	By paid R. A. Davison, interest on money advanced.....	160		496 81
July 31.	To balance carried to building account.		\$7,516 81	
			<u>\$7,516 81</u>	<u>\$7,516 81</u>

MEDICAL DEPARTMENT.

1885.				
June 10.	By paid P. H. Millard, time, railroad fare, etc.....	172		\$58 79
" 10.	By paid Franklin Staples, time, rail- road fare, etc	173		117 87
" 10.	By paid D. W. Hand, time, railroad fare, etc.....	174		9 50
" 10.	By paid G. Weston Wood, time, rail- road fare, etc.....	175		13 90
July 31.	To balance carried to current expense account.....		\$200 06	
			<u>\$200 06</u>	<u>\$200 06</u>

SIGNAL SERVICE STATION.

	No. of Cert.	DR.	CR.
Mar. 24.	Wm. A. Pike, paid for sundry instruments.....	120	\$185 40
June 29.	Wm. A. Pike, paid expressage, etc.....	183	3 95
July 31.	To balance carried to current expense account.....	\$189 35	
		<u>\$189 35</u>	<u>\$189 35</u>

ENLARGEMENT OF CAMPUS.

1884.			
Aug. 1.	To balance from last statement.....	\$1,080 85	
1885.			
July 31.	By balance to new account.....		\$1,080 85
		<u>\$1,080 85</u>	<u>\$1,080 85</u>
1885.			
Aug. 1.	To balance.....	\$1,080 85	

WATER SUPPLY.

1884.			
Aug. 1.	To balance from last statement.....	\$402 93	
1885.			
July 31.	By balance to new account... ..		\$402 93
		<u>\$402 93</u>	<u>\$402 93</u>
1885.			
Aug. 1.	To balance.....	\$402 93	

SALT SPRING LAND SALES.

	DR.	CR.
1884.		
Aug. 1.	To balance from last statement.....	\$29,718 46
" 6.	To sundry interest payments paid by H. G. Stordock.....	91 98
Oct. 6.	To sundry interest payments paid by H. G. Stordock.....	527 10
" 18.	To sundry interest payments paid by Citizens National Bank, Fergus Falls.....	210 50
" 22.	To sundry interest payments on certificates, paid by First National Bank, Fergus Falls	687 67
Nov. 5.	To sundry interest payments on certificates, paid by H. G. Stordock	187 66
1885.		
April 22.	To payment on certificates Nos. 88 and 89.....	\$131 40
	Less commission paid Stordock....	14 45
		<u>116</u>
June 16.	To sale under certificate No. 80.....	\$560 00
	Less commission paid Stordock....	14 00
		<u>546 00</u>
" 23.	To sundry interest payments on certificates, paid by Stordock	288 70

BIENNIAL REPORT

1885.		DR.	CR.
June 30.	To payment of balance due on certificate No. 30, received from First National Bank, Fergus Falls.....	\$212 50	
July 6.	To interest payment from Otjen Bros, on secs. 34 and 35, T. 136, R. 45, sec. 2 and W. $\frac{1}{2}$ sec. 12, T. 135, R. 45.....	550 91	
" 8.	To sundry interest payments on certificates, paid by H. G. Stordock.....	758 71	
" 31.	By balance carried to new account.....		\$33,897 14
		<u>\$33,897 14</u>	<u>\$33,897 14</u>
1885.			
Aug. 1.	To balance.....	\$33,897 14	

HEATING APPARATUS.

1885.		DR.	CR.
Jan. 8.	To cash from state treasurer.....	\$2,000 00	
July 31.	By balance.....		2,000 00
		<u>\$2,000 00</u>	<u>\$2,000 00</u>
Aug. 1.	To balance.....	<u>\$2,000 00</u>	

FURNITURE ACCOUNT.

1885.		DR.	CR.
Jan. 8.	To cash from state treasurer.....	\$2,000 00	
July 31.	By balance.....		2,000 00
		<u>\$2,000 00</u>	<u>\$2,000 00</u>
Aug. 1.	To balance.....	<u>\$2,000 00</u>	

LAND SALE FUND.

1884.		DR.	CR.
Aug. 1.	To balance from last statement.....	\$528 42	
1885.			
July 31.	By balance.....		\$528 42
		<u>\$528 42</u>	<u>\$528 42</u>
Aug. 1.	To balance.....	<u>\$528 42</u>	

SUMMARY OF ACCOUNTS AUG. 1, 1885.

1885.		DR.	CR.
Aug.	1. By balance to building account.....		\$5,357 81
"	1. By balance to current expense account.....		29,600 51
"	1. By balance to enlargement of campus acct.		1,080 85
"	1. By balance to heating apparatus account....		2,000 00
"	1. By balance to furniture account		2,000 00
"	1. By balance to land sale fund account.....		528 42
"	1. By balance to salt spring land account.....		33,897 14
"	1. By balance to water supply account.....		402 93
"	1. To balance from geological survey account...	\$44,484 80	
"	1. To balance from Prof. Pike's book account..	81 86	
"	1. To cash on hand	30,301 00	
		<hr/>	<hr/>
		\$74,867 66	\$74,867 66
		<hr/>	<hr/>

REPORT OF R. A. DAVISON,

Treasurer of the Board of Regents, from Aug. 1. 1885, to Sept. 1, 1885, or to the time H. P. Browne was elected and qualified.

CURRENT EXPENSE.

1885.	No. of Cert.	DR.	CR.
Aug. 1. To balance from last statement ...		\$29,600 51	
“ 4. To cash received from state treasurer		1,343 44	
“ 31. By balance from the college of agriculture account.....			\$701 00
“ 31. By balance from employes acct...			280 00
“ 31. By balance from incidentals acct..			147 95
“ 31. By balance from library account.			18 22
“ 31. By balance from salaries for instruction.....			200 00
“ 31. By balance to new account.....			29,596 78
		<u>\$30,943 95</u>	<u>\$30,943 95</u>
Sept. 1. To balance.....		<u>\$29,596 78</u>	

SALARIES FOR INSTRUCTION.

1885.	No. of Cert.	DR.	CR.
Aug. 31. By cash paid E. D. Porter, for August.....	16		\$200 00
“ 31. To balance carried to account current expense.....		\$200 00	
		<u>\$200 00</u>	<u>\$200 00</u>

EMPLOYEES AND WORKMEN.

1885.	No. of Cert.	DR.	CR.
Aug. 31. By cash paid August pay roll.....	16		\$280 00
“ 31. To balance carried to account current expense account.....		\$280 00	
		<u>\$280 00</u>	<u>\$280 00</u>

COLLEGE OF AGRICULTURE.

1885.	No. of Cert.	DR.	CR.
Aug. 8. By cash paid on July pay roll, farm	8		\$701 00
" 31. To balance carried to account cur- rent expense.....		\$701 00	
		<u>\$701 00</u>	<u>\$701 00</u>

INSURANCE.

1885.	No. of Cert.	DR.	CR.
Aug. 26. To cash received from state treas- urer.....		\$315 00	
" 26. By cash paid McMillan & Hast- ings, insurance.....	17		\$315 00
		<u>\$315 00</u>	<u>\$315 00</u>

INCIDENTALS.

1885.	No. of Cert.	DR.	CR.
Aug. 5. By paid N. H. Winchell, petty expenses.....	1		\$4 00
" 5. By paid Tribune Job Printing Company, printing.....	3		31 75
" 6. By paid J. E. Gallow, expenses in cleaning buildings.....	6		14 00
" 11. By paid Miller Bros., merchan- dise.....	9		17 45
" 11. By paid C. D. Whitall & Co., mer- chandise.....	10		4 85
" 14. By paid Minneapolis Tribune Company, printing	13		47 90
" 14. By paid Evening Journal, print- ing and advertising.....	15		28 00
" 31. To balance carried to current ex- pense account.....		\$147 95	
		<u>\$147 95</u>	<u>\$147 95</u>

LIBRARY.

1885.	No. of Cert.	DR.	CR.
Aug. 6. By paid W. W. Folwell, to bal- ance account, petty expenses...	7		\$ 77
" 14. By paid Nelson, Tenney & Co., stock for shelves, etc.....	14		17 45
" 31. To balance carried to current ex- pense account.....		\$18 22	
		<u>\$18 22</u>	<u>\$18 22</u>

BIENNIAL REPORT

GEOLOGICAL SURVEY.

1885.		No. of Cert.	DR.	CR.
Aug. 1.	By balance from last statement...			\$44,484 80
" 5.	By paid N. H. Winchell, petty expenses.....	2		97 15
" 6.	By paid Whitall, Tatum & Co., merchandise	4		18 10
6.	By paid Jas. W. Queen & Co., merchandise	5		4 75
11.	By paid J. S. Pillsbury, money advanced Prof. Winchell at New Orleans to purchase specimens.....	11		100 00
" 14.	By paid Frank Hayward, museum trays.....	12		8 25
" 31.	By paid August pay roll	16		325 00
" 31.	To balance.....		\$45,038 05	
			<hr/>	<hr/>
			\$45,038 05	\$45,038 05
			<hr/>	
Sept. 1.	By balance.....			\$45,038 05
			<hr/>	

BUILDING ACCOUNT.

1885.		DR.	CR.
Aug. 1.	To balance from last statement...	\$5,357 81	
" 31.	By balance		\$5,357 81
		<hr/>	<hr/>
		\$5,357 81	\$5,357 81
		<hr/>	<hr/>
Sept. 1.	To balance.....	\$5,357 81	
		<hr/>	<hr/>

ENLARGEMENT OF CAMPUS.

1885.			
Aug. 1.	To balance from last statement.....	\$1,080 85	
" 31.	By balance.....		\$1,080 85
		<hr/>	<hr/>
		\$1,080 85	\$1,080 85
		<hr/>	<hr/>
Sept. 1.	To balance.....	\$1,080 85	
		<hr/>	<hr/>

HEATING APPARATUS ACCOUNT.

1885.			
Aug. 1.	To balance from last statement.....	\$2,000 00	
" 31.	By balance.....		\$2,000 00
		<hr/>	<hr/>
		\$2,000 00	\$2,000 00
		<hr/>	<hr/>
Sept. 1.	To balance	\$2,000 00	
		<hr/>	<hr/>

FURNITURE ACCOUNT.

1885.		DR.	CR.
Aug. 1.	To balance from last statement.....	\$2,000 00	
" 31.	By balance.....		\$2,000 00
		<u>\$2,000 00</u>	<u>\$2,000 00</u>
Sept. 1.	To balance.....	<u>\$2,000 00</u>	

LAND SALE FUND.

1885.			
Aug. 1.	To balance from last statement.....	\$528 42	
" 31.	By balance.....		\$528 42
		<u>\$528 42</u>	<u>\$528 42</u>
Sept. 1.	To balance.....	<u>\$528 42</u>	

SALT SPRING LAND SALES.

1885.			
Aug. 1.	To balance from last statement.....	\$33,897 14	
" 31.	By balance.....		\$33,897 14
		<u>\$33 897 14</u>	<u>\$33,897 14</u>

WATER SUPPLY.

1885.			
Aug. 1.	To balance from last statement.....	\$402 93	
" 31.	By balance.....		\$402 93
		<u>\$402 93</u>	<u>\$402 93</u>
Sept. 1.	To balance.....	<u>\$402 93</u>	

PROF. PIKE'S BOOK.

1885.			
Aug. 1.	By balance from last statement.....		\$81 86
" 31.	To balance.....	\$81 86	
		<u>\$81 86</u>	
Sept. 1.	By balance.....	<u>\$81 86</u>	

SUMMARY OF ACCOUNTS.

Sept. 1, 1885.

1885.		
Sept. 1.	By balance from building account.....	\$5,357 81
" 1.	By balance from current expense account.....	29,596 78
" 1.	By balance from enlargement of campus.....	1,080 85
" 1.	By balance from heating apparatus.....	2,000 00

1885.		Dr.	Cr.
Seps.	1. By balance from furniture		\$2,000 00
"	1. By balance from land sale fund.....		528 42
"	1. By balance from salt spring lands.....		33,897 14
"	1. By balance from water supply.....		402 93
"	1. To balance from geological survey.....	\$45,038 05	
"	1. To balance from Prof. Pike's book.....	81 86	
"	1. To balance, cash turned over to H. P. Browne, new treasurer.....	29,744 02	
		<hr/>	<hr/>
		\$74,863 93	\$74,863 93
		<hr/>	<hr/>
Sept.	1. By balance, cash to H. P. Browne.....		\$29,744 02
			<hr/>

REPORT OF H. P. BROWN,

*Treasurer of the Board of Regents of the State University, from
Sept. 1, 1885, to Aug. 1, 1886.*

CURRENT EXPENSE.

		DR.	CR.
1885.			
Sept.	1. To balance from last statement.....	\$29,596 78	
"	9. To cash received from state treasurer.....	1,818 90	
Oct.	13. To cash received from state treasurer.....	8,117 52	
"	13. To cash received from high school board for services	486 00	
Nov.	4. To cash received from state treasurer.....	7,155 93	
Dec.	2. To cash received from wood sold.....	42 38	
"	3. To cash received from state treasurer.....	6,608 49	
"	18. To cash received from state treasurer.....	5,215 00	
1886.			
Jan.	2. To cash received from state treasurer.....	1,189 96	
"	2. To cash received from rent of Perkins' house on campus	138 70	
Feb.	5. To cash received from state treasurer.....	6,105 28	
Mar.	3. To cash received from state treasurer.....	6,732 55	
"	31. To cash received from state treasurer.....	6,294 32	
Apr.	30. To cash received from state treasurer.....	5,732 78	
May	29. To cash received from state treasurer.....	6,281 25	
July	1. To cash received from state treasurer.....	8,762 29	
"	31. To balance from account students' fees.....	935 00	
"	31. By balance from account chemical lab.....		\$511 48
"	31. By balance from account campus		620 59
"	31. By balance from account college of agri- culture.....		4,197 35
"	31. By balance from account employes.....		4,801 66
"	31. By balance from account farmers' institute		475 48
"	31. By balance from account heating and lighting		2,816 13
"	31. By balance from account incidentals.....		2,458 61
"	31. By balance from account library.....		1,961 15
"	31. By balance from account laboratory, bi- ology and mines.....		697 26
"	31. By balance from account physical lab.....		12 25
"	31. By balance from account printing and ad- vertising.....		1,056 19

1886.		DR.	CR.
July 31.	By balance from account repairs.....		\$484 64
" 31.	By balance from account salaries for in- structors.....		46,335 00
" 31.	By balance from account stationery and postage		281 57
" 31.	By balance from account college of medi- cine		620 35
" 31.	By balance to new account.....		33,883 42
		<u>\$101,213 13</u>	<u>\$101,213 13</u>
1886.			
Aug. 1.	To balance	\$33,883 42	

SALARIES FOR INSTRUCTION.

1885.		No. of Cert.	DR.	CR.
Sept. 9.	By paid C.W. Hall, additional salary.	12		\$50 00
" 30.	By paid September pay roll.....	41		4,570 00
Oct. 31.	By paid October pay roll.....	70		4,590 00
Nov. 30.	By paid November pay roll.....	99		4,590 00
Dec. 19.	By paid December pay roll	116		4,590 00
1886.				
Jan. 30.	By paid January pay roll.....	134		4,590 00
Feb. 27.	By paid February pay roll.....	164		4,590 00
Mar. 31.	By paid March pay roll	183		4,590 00
April 30.	By paid April pay roll.....	196		4,590 00
May 29.	By paid May pay roll.....	222		4,590 00
June 30.	By paid June pay roll.....	265		4,590 00
July 31.	By paid July pay roll.....	293		405 00
" 31.	To balance carried to account current expense.....		\$46,335 00	
			<u>\$46,335 00</u>	<u>\$46,335 00</u>

EMPLOYES AND WORKMEN.

1885.			
Sept. 19.	By paid D. L. Kiehle, three months' salary as secretary.....	30	\$75 00
" 30.	By paid September pay roll.....	41	350 00
Oct. 30.	By paid October pay roll.....	70	350 00
Nov. 30.	By paid November pay roll.....	99	350 00
Dec. 4.	By paid D. L. Kiehle, three months' salary	102	75 00
" 31.	By paid December pay roll.....	116	350 00
" 31.	By paid extra salary to fireman.....	119	30 00
1886.			
Jan. 30.	By paid January pay roll	134	380 00

1886.		No. of Cert.	DR.	CR.
Feb. 27.	By paid February pay roll.....	164		\$380 00
Mar. 10.	By paid D. L. Kiehle, three months' salary	170		75 00
" 31.	By paid March pay roll	183		380 00
Apr. 30.	By paid April pay roll	196		350 00
May 29.	By paid May pay roll.....	222		350 00
June 5.	By paid D. L. Kiehle, three months' salary.....	225		75 00
" 30.	By paid June pay roll.....	265		350 00
July 30.	By paid salary of R. A. Davison, treasurer, to Sept. 1, 1885.....	291		266 67
" 30.	By paid salary of H. P. Browne, treasurer, to July 1, 1886.....	290		333 33
" 31.	By paid July pay roll... ..	293		281 66
" 31.	To balance carried to account current expense.....		\$4,801 66	
			<u>\$4,801 66</u>	<u>\$4,801 66</u>

GEOLOGICAL SURVEY.

1885.		No. of Cert.	CR.
Sept. 1.	By balance from last statement.....		\$45,038 05
" 7.	By paid U. S. Grant, August salary....	6	52 00
" 9.	By paid C. W. Hall, petty expenses....	11	16 90
" 10.	By paid North Star Desk Works, specimen case.....	13	40 00
" 22.	By paid F. L. Washburn, for services	32	52 00
" 22.	By paid E. O. Ulrich, field expenses..	33	18 00
" 30.	By paid pay roll for September.....	41	285 00
Oct. 5.	By paid F. L. Washburn, field expenses.....	45	120 25
" 5.	By paid L. Paulle, ten-foot show case.	46	59 50
" 31.	By paid N. H. Winchell, petty expenses.....	68	41 84
" 31.	By paid N. H. Winchell, compass and freight.....	69	41 10
" 31.	By paid October pay roll.....	70	275 00
Nov. 2.	By paid Clark & Parmatier, horse.....	72	75 00
" 30.	By paid November pay roll.....	99	275 00
Dec. 4.	By paid F. L. Washburn, field expenses.....	105	80 85
" 4.	By paid F. L. Washburn, services.....	106	82 00
" 4.	By paid F. L. Washburn, services.....	107	20 00
" 5.	By paid H. V. Winchell, services.....	108	11 75
" 7.	By paid U. S. Grant, services.....	111	17 25
" 9.	By paid N. H. Winchell, petty expenses.....	113	7 46
" 19.	By paid December pay roll.....	116	275 00

1886.		No. of Cert.	CR.
Jan. 11.	By paid Empire Dist. Co., one barrel alcohol.....	124	\$27 60
" 21.	By paid Thos. Cahill, services.....	133	28 00
" 30.	By paid January pay roll.....	134	275 00
Feb. 6.	By paid H. F. Gross, birds' eggs.....	136	25 00
" 10.	By paid N. H. Winchell, petty expenses.....	138	32 60
" 10.	By paid H. V. Winchell, services for January.....	139	75 00
" 10.	By paid N. H. Winchell, petty expenses.....	140	15 65
" 27.	By paid U. S. Grant, laboratory work	162	18 65
" 27.	By paid February pay roll.....	164	275 00
Mar. 10.	By paid N. H. Winchell, museum trays, etc.....	169	29 32
" 31.	By paid March pay roll.....	183	275 00
Apr. 26.	By paid N. H. Winchell, petty expenses.....	188	27 35
" 26.	By paid N. H. Winchell, petty expenses.....	189	18 92
" 27.	By paid John B. Hawley, making plats.....	191	49 70
" 29.	By paid Les Lesquereaux, examinations, etc.....	193	65 75
" 29.	By paid Warren Upham, drafting maps	194	200 00
" 30.	By paid April pay roll.....	196	275 00
May 10.	By paid U. S. Grant, laboratory work	204	9 25
" 29.	By paid H. V. Winchell, laboratory work.....	221	6 00
" 29.	By paid May pay roll.....	222	275 00
June 7.	By paid H. V. Winchell, laboratory work.....	228	6 50
" 7.	By paid N. H. Winchell, petty expenses.....	229	49 24
" 8.	By paid E. J. Weeks, leather bags....	234	15 00
" 10.	By paid Pioneer Press Co., printing...	238	11 25
" 11.	By paid C. A. Hoffman, apparatus....	240	46 00
" 11.	By paid C. A. Hoffman, chemicals....	241	3 25
" 11.	By paid Gray & Donaldson, mdse.....	242	5 70
" 15.	By paid Miller Bros, mdse.....	246	16 60
" 17.	By paid A. C. Bausman, plat books...	247	3 00
" 18.	By paid Chas. T. Leonard, tents, etc..	256	44 90
" 30.	By paid June pay roll.....	265	275 00
July 2.	By paid C. H. Oppel & Sons, mdse.. ..	269	16 90
" 2.	By paid M. E. Reed, clerical work....	270	22 00
" 2.	By paid Morrison & McGregor, field supplies.....	270	233 51
" 8.	By paid S. M. Williams, plats and stationery.....	274	9 20

1885.		No. of Cert.	Dr.	Cr.
July 29.	By paid John T. Barnum, repairing trunk.....	288		\$2 00
" 31.	By paid July pay roll.....	293		275 00
" 26.	By paid W. J. Scott, three jars rep-tiles.....	294		3 00
" 31.	To balance to new account.....		\$49,925 79	
1886.			<u>\$49,925 79</u>	<u>\$49,925 79</u>
Aug. 1.	By balance.....			<u>\$49,925 79</u>

LAND SALES FUND.

Sept. 1.	To balance from last statement.....		\$528 42	
1886.				
July 31.	By transferred to account college of agriculture, to close out account....			\$528 42
			<u>\$528 42</u>	<u>\$528 42</u>

INCIDENTALS.

1885.		No. of Cert.	Dr.	Cr.
Sept. 2.	By paid C. W. Hall, petty expenses...	2		\$5 70
" 9.	By paid C. W. Hall, petty expenses...	10		131 45
" 11.	By paid Cyrus Northrop, petty ex-penses paid	17		36 05
" 11.	By paid Cyrus Northrop, petty ex-penses paid	18		148 37
" 11.	By paid W. H. Jacoby, photography..	19		69 50
" 12.	By paid Richards & Co., mdse.....	27		5 54
" 23.	By paid E. W. Pyle, merchandise.....	35		8 00
" 26.	By paid J. E. Gallow, extra help in cleaning	38		50 00
Oct. 1.	By paid J. B. Gilfillan, livery bills paid, etc.....	42		33 25
" 2.	By paid E. A. Cuzner, extra help cleaning	43		10 05
" 7.	By paid Edward S. Holden, expenses as witness	48		100 00
" 29.	By paid F. S. Jones, petty expenses...	55		5 63
" 29.	By paid McClary & Quigley, material and labor.....	56		29 75
" 30.	By paid W. H. Jacoby, photographic work.....	62		100 00
Nov. 2.	By paid E. W. Pyle, oil, etc.....	71		6 00
" 4.	By paid Walrath & Cleveland, toilet set	75		6 50
" 6.	By paid B. B. Marshall, repairing steam gauge	77		4 50

1885.		No. of Cert.	DR.	CR.
Nov. 14.	By paid Greenleaf Clark, traveling expenses	93		\$235 00
" 14.	By paid C. K. Davis, retaining fee	94		250 00
" 21.	By paid J. B. Gilfillan, traveling expenses.....	95		115 25
" 23.	By paid D. E. Pickett, labor and material at spring	96		54 00
Dec. 30.	By paid S. G. Dickinson & Co., waste basket	117		2 85
" 30.	By paid Mrs Mary Bowen, services....	118		13 65
1886.				
Jan. 15.	By paid Clough Bros., lumber.....	129		11 38
" 19.	By paid C. D. Whitall & Co., tracing cloth	132		3 50
Feb. 4.	By paid J. W. Day, ice	135		4 05
" 10.	By paid J. S. McCary, carpenter work	137		26 00
" 11.	By paid Wm. Cushing, dictionary.....	142		5 29
" 11.	By paid E. W. Pyle & Co., brooms, etc.	147		7 65
" 11.	By paid E. W. Pyle, merchandise.....	148		10 15
" 11.	By paid E. W. Pyle, merchandise.....	149		5 20
" 12.	By paid A. C. & C. F. Peters, frames, etc	153		21 00
" 27.	By paid W. F. Decker, labor	163		13 00
Mar. 1.	By paid Folds & Griffith, shades.....	165		15 50
" 26.	By paid J. T. Lucas, repairs on cooler	181		3 70
" 27.	By paid Jos. Kennedy, clerical work .	182		52 50
May 4.	By paid C. K. Davis, services in N. P. contest	203		347 75
" 5.	By paid E. W. Pyle, brooms, etc.....	201		3 60
" 5.	By paid E. W. Pyle, brooms, etc.....	202		3 60
" 11.	By paid J. C. Gilman, sundry work...	205		15 55
" 21.	By paid Louis Dreka, diplomas.....	216		28 75
" 22.	By paid E. W. Pyle, brooms, etc.....	218		5 30
" 27.	By paid H. F. Nachtrieb, special labor	220		25 00
June 5.	By paid D. L. Kiehle, clerical work...	226		52 00
" 7.	By paid J. S. Pillsbury, traveling expenses in securing president.....	230		315 00
" 7.	By paid J. S. Pillsbury, to J. Baker for tax title.....	231		15 00
" 14.	By paid E. W. Pyle, brooms, etc.....	243		4 60
" 18.	By paid J. E. Gallow, help in cleaning	257		12 00
" 29.	By paid F. C. Walker, cleaning carpets	263		5 50
July 13.	By paid Vernon Bailey, black bear....	278		25 00
" 31.	To balance carried to current expense account.....		\$2,458 61	
			<u>\$2,458 61</u>	<u>\$2,458 61</u>

HEATING AND LIGHTING.

1885.		No. of Cert.	DR.	CR.
Sept. 26.	By paid David Fitzgerald, hauling wood	40		\$51 75
Nov. 25.	By paid E. S. Grindall, hauling wood	98		15 00
Dec. 1.	By paid David Fitzgerald, hauling wood	100		40 00
" 10.	By paid E. W. Pyle, oil, etc	113		6 55
1886.				
Jan. 15.	By paid V. Truesdell, coal	128		368 62
Feb. 12.	By paid Minneapolis Fuel Co., coal	151		316 71
" 12.	By paid C. W. Foss, lamp	152		5 50
Mar. 12.	By paid Geo. C. Moore, fuel	173		290 00
" 13.	By paid Tombler & Co., fuel	175		150 69
" 13.	By paid E. S. Grindall, hauling wood	176		4 20
May 20.	By paid Minneapolis Fuel Co., fuel	210		93 50
June 7.	By paid Gull River Lumber Co., fuel	232		333 00
" 7.	By paid Gull River Lumber Co., fuel	233		490 00
" 8.	By paid V. Truesdell, fuel	235		449 16
" 9.	By paid Geo. C. Moore, fuel	237		201 45
July 31.	To balance carried to current expense account		\$2,816 13	
			<u>\$2,816 13</u>	<u>\$2,816 13</u>

LIBRARY.

1885.				
Sept. 9.	By paid G. E. Stechert, books	9		\$225 88
" 11.	By paid Cyrus Northrop, periodicals, etc	16		342 47
Oct. 28.	By paid J. C. Gilman, work in library	51		16 50
Nov. 14.	By paid Gustav E. Stechert, books	92		130 00
Dec. 3.	By paid Nordvesten Book Department, binding	101		9 75
" 4.	By paid Gustav E. Stechert, books	103		137 26
1886.				
Feb. 11.	By paid Gustav E. Stechert, books	145		254 79
" 11.	By paid Gustav E. Stechert, books	146		120 08
Mar. 18.	By paid H. F. Nachtrieb, books	177		59 72
Apr. 26.	By paid J. H. Rosselot, library work	190		10 35
May 1.	By paid Leo M. Crafts, library work	198		9 60
" 21.	By paid Gustav E. Stechert, books	215		145 99
June 10.	By paid Gustav E. Stechert, books	239		5 45
" 24.	By paid W. W. Folwell, salary as librarian, etc	260		506 00
July 6.	By paid Lettie M. Crafts, library work	272		3 00
" 27.	By paid Mrs. Mary Bowen, library work	282		22 45

1885.		No. of Cert	DR.	CR.
Sept. 9.	To cash for books sold.....		\$31 73	
Dec. 4.	To cash for books sold		6 41	
1886.				
July 31.	To balance carried to current expense account		1,961 15	
			<u>\$1,999 29</u>	<u>\$1,999 29</u>

PHYSICAL LABORATORY.

1886.				
Jan. 11.	By paid Henry J. Green, repairs.....	122		\$12 25
July 31.	To balance carried to current expense account.....		\$12 25	
			<u>\$12 25</u>	<u>\$12 25</u>

COLLEGE OF AGRICULTURE, OR EXPERIMENTAL FARM.

1885.				
Sept. 5.	By paid E. D. Porter, labor pay roll August	3		\$686 00
Oct. 9.	By paid E. D. Porter, labor pay roll September	49		571 60
Nov. 2.	By paid Clark & Parmatier, horse.....	72		125 00
" 7.	By paid E. D. Porter, labor pay roll October	78		390 25
" 7.	By paid R. Douglas & Sons, evergreens	79		103 00
" 9.	By paid M. Pierce, grape vines	80		25 00
" 9.	By paid Sedgwick Bros., gate, etc.....	86		21 35
" 9.	By paid Fairbanks, Morse & Co., re- pairing	88		5 50
Dec. 5.	By paid E. D. Porter, labor, pay roll November	109		428 11
1886.				
Jan. 5.	By paid J. M. Pottle & Son, wagon re- pairs	121		17 00
Feb. 11.	By paid W. H. Walmsley & Co., mdse	144		19 32
" 13.	By paid Geo. Huhn & Co., mdse.....	155		25 60
" 13.	By paid Geo. Huhn & Co., mdse.....	156		9 50
" 15.	By paid E. D. Porter, labor, pay roll December	159		235 00
" 15.	By paid E. D. Porter, labor, pay roll January	160		200 00
Mar. 9.	By paid Louis Laramie, halters and harness.....	168		48 00
Apr. 6.	By paid E. D. Porter, labor pay roll February	184		235 00

UNIVERSITY OF MINNESOTA.

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		No. of Cert.	DR.	CR.
1886.				
" 16.	By paid Miller Bros., merchandise	186		\$65 59
July 28.	By paid E. D. Porter, labor pay roll			
	March.....	283		235 00
" 28.	By paid E. D. Porter, labor pay roll			
"	April.....	284		417 85
" 28.	By paid E. D. Porter, labor pay roll			
	May	285		510 35
" 28.	By paid E. D. Porter, labor pay roll			
	June	286		618 95
1885.				
Sept. 5.	To campus account, for labor and team work.....		\$222 20	
1886.				
Mar. 13.	To campus account, for labor and team work.....		45 00	
July 31.	To amount transferred from land sale fund account.....		528 42	
" 31.	To balance carried to current expense account		4,197 35	
			<u>\$4,992 97</u>	<u>\$4,992 97</u>

CHEMICAL LABORATORY.

1885.				
Sept. 12.	By paid Eimer & Amend, chemicals..	22		\$474 46
Oct. 13.	By paid E. T. Sykes & Co., sink and connections	50		48 83
" 29.	By paid F. G. McMillan, material and labor.....	54		53 15
" 30.	By paid Geo. Huhn & Co., mdse.....	60		115 87
Nov. 9.	By paid Becker Bros., mdse.....	82		58 00
1886.				
Feb. 10.	By paid Johnson Bros. & Ames, printing.....	141		4 50
" 13.	By paid Geo. Huhn & Co., mdse.....	154		15 54
Apr. 29.	By paid Geo. Huhn & Co., mdse.....	192		16 73
1885.				
Dec. 7.	To cash paid as students' fees.....		\$153 60	
1886.				
June 19.	To cash paid as students' fees.....		122 00	
July 31.	To balance carried to current expense account.....		511 48	
			<u>\$787 08</u>	<u>\$787 08</u>

CAMPUS ACCOUNT.

1885.		No. of Cert.	DR.	CR.
Sept. 5.	By paid E. D. Porter, labor and team work.....	4		\$241 25
" 5.	By paid experimental farm, labor and team work.....	5		222 20
1886.				
Mar. 13.	By paid E. D. Porter, labor and team work.....	174		111 50
July 2.	By paid Chas. Thompson, labor.....	267		38 63
" 2.	By paid Chas. W. Jackson, labor.....	268		7 01
" 31.	To balance carried to current expense account.....		\$620 59	
			<u>\$620 59</u>	<u>\$620 59</u>

STATIONERY AND POSTAGE.

1885.				
Sept. 11.	By paid Cyrus Northrop, petty bills...	15		\$281 57
1886.				
July 31.	To balance carried to Current Expense account.....		\$281 57	
			<u>\$281 57</u>	<u>\$281 57</u>

LABORATORY OF BIOLOGY AND MINERALOGY.

1885.				
Oct. 28.	By paid Johnson Bros. & Mann, books..	52		\$18 38
" 29.	By paid Wheaton, Reynolds & Co., labor.....	57		2 60
" 30.	By paid H. H. Molloy, apparatus.....	64		11 15
" 31.	By paid H. F. Nachtrieb, sundry expenses.....	65		32 79
" 31.	By paid H. F. Nachtrieb, instruments, etc.....	66		8 83
Nov. 9.	By paid W. H. Walmsley, microscope..	83		16 00
" 9.	By paid Bausch & Lomb Optical Co., microscope.....	84		146 25
" 9.	By paid F. J. Emerick & Son, microscope.....	85		78 57
" 14.	By paid Eimer & Amend, mdse.....	91		56 88
Dec. 4.	By paid Chas. Dawson, mdse.....	104		5 00
1886.				
Jan. 11.	By paid Chas. Dawson, mdse.....	123		4 00
" 11.	By paid Adam Pfeifer, mdse.....	125		98 50
" 18.	By paid H. F. Nachtrieb, petty expenses.....	131		14 07
Feb. 11.	By paid W. H. Walmsley & Co., two microscopes.....	143		31 75

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1886.		No. of Vchr.	DR.	CR.
Mar. 1.	By paid H. H. Molloy, instruments...	166		\$7 00
Apr. 15.	By paid H. H. Molloy, instruments...	185		4 00
" 30.	By paid H. H. Molloy, instruments...	195		18 10
June 1.	By paid C. W. Hall, instruments.....	223		57 16
July 12.	By paid H. F. Nachtrieb, petty ex- penses.....	276		11 23
" 12.	By paid H. F. Nachtrieb, petty ex- penses.....	277		75 00
" 31.	To balance carried to current expense account.....		\$697 26	
			<u>\$697 26</u>	<u>\$697 26</u>

FARMERS INSTITUTE.

1886.				
May 4.	By paid O. C. Gregg, salary and ex- penses.....	200		\$132 84
" 11.	By paid O. C. Gregg, expenses.....	206		95 48
June 23.	By paid O. C. Gregg, salary and ex- penses.....	259		121 73
July 2.	By paid O. C. Gregg, salary and ex- penses.....	266		125 43
" 31.	To balance carried to current expense account.....		\$475 48	
			<u>\$475 48</u>	<u>\$475 48</u>

PRINTING AND ADVERTISING.

1885.				
Sept. 2.	By paid Johnson Bros., printing	1		\$56 50
" 8.	By paid Pioneer Press Co., advertising	7		32 00
" 11.	By paid Cyrus Northrop, paid for ad- vertising.....	14		6 00
" 12.	By paid Fergus Falls Printing and Publishing Co., advertising.....	20		8 00
" 12.	By paid Sanford Niles, advertising.. ...	21		18 00
" 25.	By paid Tribune Job Printing Co., printing	37		21 50
Oct. 30.	By paid Ariel Association, advertising	58		75 00
Nov. 4.	By paid Geeseman & Murphy, print- ing	73		4 50
Dec. 5.	By paid Tribune Job Printing Co., printing	110		165 10
1886.				
Feb. 16.	By paid Minneapolis Tribune Co., ad- vertising.....	157		54 19
Mar. 25.	By paid Pioneer Press Co., advertising	179		11 20
May 20.	By paid Johnson, Smith & Harrison, printing	212		16 50

		No. of Vchr.	DR.	CR.
1886.				
May 21.	By paid St. Paul Dispatch, advertising	217		\$3 00
June 14.	By paid Johnson Bros. & Amos, printing.....	244		33 45
" 14.	By paid Johnson, Smith & Harrison, printing.....	245		458 50
" 18.	By paid Journal Printing Co., printing	249		9 75
1885.				
Oct. 30.	By paid A. C. Bausman, printing	63		5 00
" 30.	By paid Pioneer Press Co., printing ...	59		8 00
1886.				
June 10.	By paid Nordvesten Publishing Co., advertising	264		70 00
July 31.	To balance carried to current expense account.....		\$1,056 19	
			<u>\$1,056 19</u>	<u>\$1,056 19</u>

REPAIRS.

1885.				
Sept. 8.	By paid E. T. Sykes & Co., plumbing..	8		\$30 73
" 14.	By paid Porter & Leslie, plastering....	28		14 50
" 15.	By paid Preston & Nott, packing.....	29		8 67
" 19.	By paid Herzog Manufacturing Co., repairing railing.....	31		6 00
" 24.	By paid J. H. Hagen, painting.....	36		19 45
" 26.	By paid Galpin & Emerson, material and labor.....	39		65 71
Oct. 5.	By paid John T. Lucas, repairing roof..	44		2 00
" 30.	By paid Mayhew Bros., papering.....	61		119 22
" 31.	By paid E. L. Ames, paper hanging...	67		57 70
Nov. 4.	By paid John Speedy, paper hanging..	74		16 00
" 9.	By paid Boyson & Rasmussen, kalso-mining, etc.....	81		38 79
1886.				
Jan. 16.	By paid Miller Bros., merchandise....	130		5 96
Feb. 11.	By paid North Star Iron Works, materials.....	150		37 14
" 16.	By paid E. T. Sykes & Co., materials..	158		5 69
" 17.	By paid M. Lara & Co., matting.....	161		5 30
Apr. 17.	By paid Janney, Semple & Co., merchandise	187		9 80
May 20.	By paid J. S. McClary, glass, etc.....	209		10 00
" 21.	By paid Miller Bros., hardware.....	213		14 40
July 8.	By paid Ball & Naylor, pipes, valves, etc	275		17 58
" 31.	To balance carried to current expense account.....		\$484 64	
			<u>\$484 64</u>	<u>\$484 64</u>

MEDICAL DEPARTMENT.

1886.		No. of Vchr.	DR.	CR.
June 18.	By paid P. H. Millard, services and expenses.....	250		\$62 45
" 18.	By paid P. H. Millard, services and expenses.....	251		82 75
" 18.	By paid G. W. Wood, services and expenses	252		78 35
" 18.	By paid D. W. Hand, services and expenses	253		65 00
" 18.	By paid Franklin Staples, services and expenses.....	254		151 80
" 18.	By paid Chas. E. Smith, services and expenses.....	255		70 00
July 27.	By paid W. H. Leonard, services and expenses.....	279		30 00
" 27.	By paid W. H. Leonard, services and expenses.....	280		40 00
" 29.	By paid Chas. Simpson, services and expenses	289		40 00
" 31.	To balance carried to current expense account.....		\$620 35	
			<u>\$620 35</u>	<u>\$620 35</u>

STUDENTS' FEES.

1885.		DR.	CR.
Sept. 11.	To paid by Cyrus Northrop, fees paid.....	\$935 00	
1886.			
July 31.	By balance carried to current expense account.....		\$935 00
		<u>\$935 00</u>	<u>\$935 00</u>

BUILDING ACCOUNT.

1885.		No. of vchr.	DR.	Ct.
Sept. 1.	To balance from last statement.....		\$5,357 81	
Nov. 4.	To cash from state treasurer.....		8,000 00	
1886.				
July 1.	To cash from state treasurer.....		10,000 00	
" 15.	To cash from state treasurer.....		10,000 00	
" 31.	By balance from account college mechanical arts building			\$13,185 71
" 31.	By balance from account military building.....			300 00
" 31.	By balance to new account.....			19,872 10
			<u>\$33,357 81</u>	<u>\$33,357 81</u>
Aug. 1.	To balance.....		<u>\$19,872 10</u>	

MECHANIC ARTS BUILDING.

1885.		No. of Vchr.	DR.	CR.
Nov. 24.	By paid W. D. Kimball, services as architect.....	97		\$100 00
1886.				
Mar. 9.	By paid Otto Munson, labor.....	167		10 00
" 11.	By paid S. C. Cutter, payment on contract.....	171		2,000 00
June 5.	By paid S. C. Cutter, payment on contract.....	224		2,000 00
" 8.	By paid J. McCune, agent, freight on stone.....	236		122 50
" 25.	By paid L. S. Buffington, services as architect.....	261		650 00
July 7.	By paid S. C. Cutter, payment on contract.....	273		8,000 00
" 27.	By paid Wheaton, Reynolds & Co., materials.....	281		2 42
" 29.	By paid Janney, Sample & Co., bolts..	287		6 58
" 31.	By brought from account apparatus for building of mechanical arts.....			175 00
" 31.	By brought from account incidentals for building of mechanical arts.....			119 21
" 31.	To balance carried to building account.....		\$13,185 71	
			<hr/>	<hr/>
			\$13,185 71	\$13,185 71
			<hr/>	<hr/>

APPARATUS, COLLEGE OF MECHANIC ARTS.

1885.				
Oct. 28.	By paid American Tool & Machine Co., tools.....	53		\$50 00
1886.				
May 4.	By paid Tinius, Olsen & Co., tools.	199		125 00
July 31.	To balance to account mechanical arts building.....		\$175 00	
			<hr/>	<hr/>
			\$175 00	\$175 00
			<hr/>	<hr/>

INCIDENTALS, COLLEGE OF MECHANIC ARTS.

1886.				
Mar. 23.	By paid Tinius, Olsen & Co., merchandise	178		\$70 00
" 25.	By paid C. D. Whitall & Co., tracing cloth.....	180		3 50
May 1.	By paid J. H. Barr, petty expenses	197		12 72
" 20.	By paid Beede & Bray, lumber.....	211		8 00
June 7.	By paid W. R. Hoag, petty expenses	227		6 75

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1356.	No. of Vchr.	DR	CR.
June 17. By paid J. P. Gilmore, merchandise.....	248		\$5 00
“ 26. By paid Janney, Semple & Co., merchandise.....	262		3 24
July 31. By paid F. H. Adams, tracings....	292		10 00
“ 31. To balance to mechanical arts building account.....		\$119 21	
		<u>\$119 21</u>	<u>\$119 21</u>

MILITARY BUILDING.

1886.			
Jan. 15. By paid S. C. Cutler, labor and material..	127		\$300 00
July 31. To balance to building account.....		\$300 00	
		<u>\$300 00</u>	<u>\$300 00</u>

ENLARGEMENT OF CAMPUS.

1885.			
Sept. 1. To balance from last statement.....			\$1,080 85
1886.			
July 31. By balance to new account.....		\$1,080 85	
		<u>\$1,080 85</u>	<u>\$1,080 85</u>
Aug. 1. To balance		<u>\$1,080 85</u>	

FURNITURE.

1885.			
Sept. 1. To balance from last statement.....		\$2,000 00	
“ 12. By paid Quimby & Abbott, furniture	23		\$134 25
“ 12. By paid De Coster & Clark, furniture..	24		267 50
“ 12. By paid De Coster & Clark, furniture..	25		140 50
“ 12. By paid De Coster & Clark, furniture..	26		75 00
Oct. 6. By paid L. Paulle, two wardrobes.....	47		110 00
Nov. 5. By paid M. Lara & Co., carpets.....	76		86 48
“ 12. By paid Folds & Griffith, carpets.....	89		60 20
“ 12. By paid Folds & Griffith, carpets.....	90		160 97
Dec. 7. By paid Bradstreet, Thurber & Co., furniture	112		91 00
“ 16. By paid M. L. Sanford, sofa and table	115		14 00
1886.			
Jan. 11. By paid De Coster & Clark, one chair	126		10 00
Mar. 12. By paid Frank Glessner, finishing table	172		3 00
May 20. By paid C. W. Foss, filters, etc.....	207		15 80
July 1. By balance carried to new account.....			831 30
		<u>\$2,000 00</u>	<u>\$2,000 00</u>
Aug. 1. To balance.....		<u>\$831 30</u>	

INSURANCE.

		No. of Vch.	DR.	CR.
1885.				
Dec. 3.	To cash from state treasurer.....		\$500 00	
1886.				
Feb. 26.	To cash from state treasurer.....		535 00	
Jan. 4.	By paid McMillan & Hastings, insurance.....	120		\$297 52
May 20.	By paid Gale & Co., insurance.....	208		90 00
" 21.	By paid McMillan & Hastings, insurance.....	214		576 00
" 24.	By paid Corser, Stone & Co., insurance.....	219		90 00
June 21.	By paid St. Paul Fire and Marine Insurance Company.....	258		135 00
July 31.	To balance carried to new account.....		153 52	
			<u>\$1,188 52</u>	<u>\$1,188 52</u>
Aug. 1.	By balance.....			<u>\$153 52</u>

HEATING APPARATUS.

1885.				
Sept. 1.	To balance from last statement		\$2,000 00	
" 22.	By paid North Star Iron Works Co., grate bars.....	34		102 00
Nov. 11.	By paid F. A. Schoemaker, furnace and stoves	87		223 20
1886.				
July 31.	By balance to new account			1,674 80
			<u>\$2,000 00</u>	<u>\$2,000 00</u>
Aug. 1.	To balance.....		<u>\$1,674 80</u>	

WATER SUPPLY.

1885.				
Sept. 1.	To balance from last statement		\$402 93	
1886.				
July 31.	By balance to new account			\$402 93
			<u>\$402 93</u>	<u>\$402 93</u>
Aug. 1.	To balance.....		<u>\$402 93</u>	

PROF. PIKE'S BOOK.

		DR.	CR.
1885.			
Sept. 1.	By balance from last statement		\$81 86
1886.			
July 31.	To balance to new account	\$81 86	
		<u>\$81 86</u>	<u>\$81 86</u>
Aug. 1.	By balance		<u>\$81 86</u>

SALT LAND SALES.

1885.			
Sept. 1.	To balance from last statement.....	\$33,897 14	
" 3.	To paid on certificate No. 23, remitted by First Nat. Bank, Fergus Falls.....	467 50	
" 23.	To paid on certificate No. 90, remitted by H. G. Stordock	71 04	
Oct. 24.	To paid on sundry int. payments, remit- ted by Citizens Nat. Bank, Fergus Falls	81 85	
" 26.	To paid on sundry int. payments, remit- ted by First Nat. Bank, Fergus Falls....	787 40	
Nov. 16.	To paid on certificate No. 91, remitted by H. G. Stordock	121 00	
" 24.	To paid sundry payments, interest, and re- mitted by H. G. Stordock.....	421 44	
1886.			
Mar. 31.	To paid on certificates Nos. 48, 57 and 78, received from Citizens Nat. Bank, Fer- gus Falls	1,372 41	
Apr. 6.	To paid on certificate No. 93, received from H. G. Stordock	217 50	
May 22.	To paid on sundry certificates, received from Citizens Nat. Bank, Fergus Falls...	780 50	
June 24.	To paid on sundry int. payments, received from Citizens Nat. Bank, Fergus Falls...	84 00	
July 17.	To paid on sundry int. payments, received from Citizens Nat. Bank, Fergus Falls...	39 90	
" 2.	To paid interest on certificate No. 5, by Chas. J. Wright.....	71 46	
" 10.	To paid sundry interest payments, by H. G. Stordock.....	244 92	
" 20.	To paid interest on certificates, by C. J. Otjen.....	494 50	
" 27.	To paid interest on sundry certificates by H. G. Stordock	56 41	
" 31.	By balance to new account		\$39,208 97
		<u>\$39,208 97</u>	<u>\$39,208 97</u>
Aug. 1.	To balance.....	\$39,208 97	

SUMMARY OF ACCOUNTS.

1886.		DR.	CR.
Aug.	1. By balance from building account.....		\$19,872 10
"	1. By balance from current expense account..		33,883 42
"	1. By balance from enlargement of campus account.....		1,080 85
"	1. By balance from furniture account		831 30
"	1. By balance from heating apparatus account		1,674 80
"	1. By balance from salt spring land account..		39,208 97
"	1. By balance from water supply account.....		402 93
"	1. To balance from geological survey account..	\$49,925 79	
"	1. To balance from insurance account.....	153 52	
"	1. To balance from Prof. Pike's book account	81 86	
"	1. To cash on hand.....	46,793 20	
		<hr/>	<hr/>
		\$96,954 37	\$96,954 37
		<hr/>	<hr/>

EIGHTEENTH ANNUAL REPORT

(FOURTH BIENNIAL REPORT)

OF THE

PRESIDENT

OF THE

UNIVERSITY OF MINNESOTA

TO THE

BOARD OF REGENTS.

1884-85 AND 1885-86.

*

THE UNIVERSITY OF MINNESOTA,
MINNEAPOLIS, MINN., Sept. 1, 1886.

To His Excellency, Lucius F. Hubbard, Governor of Minnesota.

SIR: I have the honor to transmit herewith the fourth bien-nial report (No. 15 of the series), of the condition and progress of the University for the years 1884-85, and 1885-86.

Very respectfully,

Your obedient servant,

CYRUS NORTHROP,

President.

REPORT

OF THE

UNIVERSITY OF MINNESOTA.

To His Excellency, L. F. Hubbard, Governor of Minnesota:

During the two years which have passed since I became president of the University of Minnesota, the university has enjoyed a good degree of prosperity, as evinced by the increasing number of its students; its enlarged force of teachers, the additions to its library and apparatus, the erection of a commodious building for the college of mechanic arts, and the physical laboratory; the reorganization of the college of agriculture; the organization and successful working of a graduate department, and the spirit and zeal of instructors and students in every department of the institution.

While thus the internal evidences of prosperity are very satisfactory, it is not less gratifying to observe the manifestations of good will towards the institution on the part of the people of the State, especially as shown in the closer relations between the highschools and the university — relations which seem to realize the hope of my predecessor, as expressed in his last biennial report, “that at no distant day, the high schools of the State may form a broad and direct avenue from the common schools to the university.” The action of the board of regents, in authorizing the admission to the freshman class in the university of all students who present diplomas as graduates of first-class high schools, cannot fail to strengthen these relations and to be most salutary in its results, both to the university and the high schools, and thus to do much towards accomplishing the purpose of the State in establishing its system of public education, and in providing for the higher education in the university as a part of that system.

CHANGES IN THE BOARD OF REGENTS AND THE FACULTY.

Since the last biennial report no change has occurred in the membership of the board of regents, except that occasioned by a change in the presidency of the university. In the faculty a number of changes have occurred—none of them, however, involving the removal of any professor—and some, happily, caused by the enlargement of the courses of study. Mr. C. L. Herrick, instructor in zoology, having been appointed professor in another institution, declined a reappointment in the university and was succeeded by Henry F. Nachtrieb, B. S., as assistant professor of biology.

Prof O. J. Breda, who had been elected professor of the Scandinavian languages and literatures while in Europe, but who had not entered upon his duties at the time of the last report, has been on duty during the last two years, teaching Latin the first year and German and the Scandinavian languages the second year. His work is of growing importance and will soon require that all his time be given to his own department.

Prof. George E. MacLean, Ph. D., who was an instructor in English literature during the last term of 1883-84, was soon after elected professor of English literature, and entered upon the duties of the office at the opening of the university year 1884-85.

History, until the third term of 1884-85, under the care of the instructor in mental and moral philosophy, was at that time made a separate department, and Harry Pratt Judson, B. A., was elected professor. He entered upon the duties of his office at the opening of the year 1885-86, and has taught during the year, dividing his time between Latin and history. For the future his whole attention will be given to history and to pedagogics. In the latter subject Professor Judson gave a course of lectures to the senior class the past year, and he will give an enlarged course in the same subject to successive classes.

During the year 1885-86 Fred. S. Jones, B. A., has been the instructor in physics, a subject heretofore under the care of the professor of engineering.

John H. Barr, B. M. E., has been instructor in mechanical engineering during the past year, having succeeded Mr. Wilbur F. Decker, B. M. E., who declined a reappointment, and Mr. William R. Hoag, B. C. E., has been an instructor in civil engineering during the same time having succeeded Mr. W. F. Carr, who was instructor in civil engineering during the year 1884-85,

and who succeeded Henry M. Waite, B. S., on duty the preceding year.

Prof. John S. Clarke, B. A., for some years assistant professor of Latin, was elected, in the third term of 1885-86, professor of Latin, and placed in charge of the department, Professor Brooks, for several years past in charge of the Latin department, being relieved of the same.

Prof. John C. Hutchinson, B. A., for some years assistant professor of Greek and mathematics, was, in the third term of 1885-86, elected professor of Greek and mathematics, with the title of associate professor of Greek and mathematics. By these changes in the faculty, three graduates of the university, two graduates of Williams College, and one graduate of Yale College, have been added to the faculty, and two graduates of the university have been advanced to full professorships. It gives me great pleasure to say that all the gentlemen who have been added to the faculty since the last report have proved themselves to be most capable instructors, and they have all been very helpful to me in my work.

6. *Degrees Conferred.*

Since the last report, degrees have been conferred as follows:

	1885	1889
Bachelors of arts.....	3	6
Bachelors of science	3	6
Bachelors of literature.....	6	6
Bachelors of civil engineering	2	
Bachelor of mechanical engineering.....	1	
Bachelor of architecture.....		1
Bachelor of agriculture	1	
Bachelors of medicine.....	2	3
Master of science	1	
	<hr/>	<hr/>
	19	22

The names and residences of these graduates are given in appendix "A."

The following table shows the number and kinds of degrees which have been conferred by this university:

	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1885	Total.
B. A	2	1	3	3	9	5	8	4	10	11	8	9	3	6		82
B. S.....		1	2	5	3	8	10	9	10	9	7	9	3	6		82
B. L			1		4	1	6	4	7	11	7	3	6	6		56
B. C. E.			3	3			2				2	3	2			15
B. M. E.....						1					1		1			3
B. Arch.....					1										1	2
B. A.....										1			1			2
M. A.....								1	1							2
M. S.....										1			1			2
M.....												2	2	3		7
Totals.....	2	2	9	11	17	15	26	18	28	33	25	26	19	22		253

The whole number of persons graduated is two hundred and forty-three (243), five persons having received degrees, both in science and in engineering, one person having received a degree, both in arts and in science, and four bachelors having received a master's degree, after passing the required examinations. No honorary degrees are conferred by this university.

The whole number of women who have been graduated is seventy-two, viz.: bachelors of arts, 13; of science, 20; of literature, 40; one person having received a degree both in arts and in literature. The work done by the women to secure their degrees is the same as that done by the men who graduate. I am happy to say that, after two years' experience here of "the co-education of the sexes," I know of nothing to make me regret the presence here of both ladies and gentlemen as students.

ATTENDANCE.

The number of students in attendance in the year 1884-85 was slightly greater than the number in attendance in the year 1883-84. The number in attendance in the year 1885-86 was nearly one hundred greater than the number in attendance in the preceding year. But, unfortunately, the students whose names appear on our registry are not all present and at work during the entire year. It was to me a matter of no little sur-

prise and disappointment to find at the end of my first week in office, September, 1884, that only one hundred and twenty students had registered, while the calendar of the university showed that two hundred and seventy-eight had registered during the preceding year. Accustomed, as I had been, to have all the students of a college report for work on the first day of the collegiate year, I could not understand why there should be considerably less than half of the apparent student body present and at work when the first week ended. I soon learned, however, that in this particular of regularity in attendance from the opening of the year to the end, the students in the West differ widely from those in the East, and that to a considerable extent the failure of students in the West to report for work on the first day of the term was supposed to be due to the necessity of their earning at least a part of their own living, and therefore of conforming their engagements for study to the requirements of their business engagements. So far as irregularity in attendance is a necessity, it is proper for the authorities of the university to allow it, but it should be clearly recognized by all concerned that any considerable degree of irregularity—especially the entrance of many students after the term has been some weeks in progress—is a very great injury, not merely to those who enter late, but also to those who are regular and prompt in attendance. I am happy to say that the promptness in registering at the opening of the year, and the regularity in attendance, were much greater in 1885-86 than in the previous year. I believe that, hereafter, students will understand that when the university announces a day on which to begin work, work will be begun on that day; and that it is reasonable for the student to conform to the requirements of the university rather than for the university to conform to the requirements of every student. The university is a State institution, and its policy in all respects should be liberal so as to meet the real wants of the people. But its policy must not be so liberal as to destroy the university or to convert it into an educational camp meeting, to which all may go when they please and in what way they please.

For the enrollment and classification of students during the two years covered by this report, 1884-85 and 1885-86, see appendix "B."

ADMISSIONS.

The record of admissions to the university is as follows:

RECORD FOR 1884-85.

	Gentlemen.	Ladies.	Total.
Examined.....	96	53	149
Admitted.....	49	24	73
Rejected.....	47	29	76

RECORD FOR 1885-86.

	Gentlemen.	Ladies.	Total.
Examined	136	57	193
Admitted.	108	35	143
Rejected.....	28	22	50

The number of high school board certificates presented at the university during the year 1884-85 was one hundred and sixty-one, and during the year 1885-86, three hundred and thirty-nine.

The different towns represented by the candidates presenting the certificates in 1884-85, and in 1885-86, the number of certificates from each town, the subjects, and the number of candidates presenting certificates, are shown in appendix "C."

INSTRUCTION.

The reports of the instructors in the university, during the two years covered by this report, have been received and are on file, subject to inspection by the board or by any one who may be interested therein. It gives me great pleasure to bear witness to the fidelity and ability displayed by the instructors now in service, and especially to speak of their readiness to assist me in all my efforts to make the university better, and of their own honorable ambition to do everything possible in their several departments to promote sound scholarship. While I have no occasion to single out particular instructors for special commendation where all have been so earnest and faithful, I am sure it will not be considered invidious, if I make special mention here of my sense of obligation to my predecessor, Dr. Folwell. Coming to the university, as I did, an entire stranger to its established method of administration, I might easily have been embarrassed by the multitude of questions coming to me at once for decision. From this I have been enabled to escape, and my escape is due, in a large measure, to the generous spirit of helpfulness exhibited by Dr. Folwell. I desire to put on record here my

grateful appreciation of his personal friendship to myself, and of his manly bearing in all our relations.

LIBRARIAN'S REPORT.

I transmit herewith the report of the librarian, and respectfully call the attention of the board to the suggestions therein contained, respecting the proper management of a college library, and the present and prospective needs of our own library.

BUILDINGS.

I regard it of great importance to the university that the work of erecting the new buildings required for the present wants of the university, should be pressed forward with all possible dispatch. The new building and equipments for the college of mechanic arts, will meet the wants of that college for some years to come, and will enable it to do excellent work. The physical laboratory in this building, with its new and very fair equipment, will meet a long-felt want, and will do much to make the department of physics as prominent as its importance deserves.

A new building for the purposes of science is needed at once, and I hope that during the coming year science hall may be built, large enough to furnish lecture rooms and laboratories for the instruction in botany, geology, mineralogy, zoology and physiology; and also museums for the collections in these departments. Considering the number of students engaged in scientific study in the university, and the amount of work required to be done, the present accommodations furnished by the university for progress in science, both in the line of study and of original investigation, are less satisfactory than those in any other department. Some progress towards what is needed has been made in the past year in the matter of apparatus for instruction, but our wants cannot be met till the new building is erected. Meanwhile, though our work of instruction is well done, we suffer by comparison with some neighboring states, where the amplest accommodations for the departments of science have been provided with the greatest liberality. The sooner, therefore, science hall can be erected, the better it will be for the work and the reputation of the university.

OTHER BUILDINGS.

We need, of course, an observatory, and it should be built as soon as possible, at least as soon as the science hall is completed. And then a library building—so necessary for the proper use of the library by the students—must not be long in following. While provision has been made in whole or in part for all of these buildings, I speak of them here because we need them *now*; and because we need them now, I desire to express the hope that nothing will be permitted to interfere with this work, so immediately necessary, of erecting the buildings already planned. I am sure that the State of Minnesota will not wish to be behind Wisconsin, Iowa, Kansas, and Nebraska, in providing the necessary buildings for the accommodation of its state university; and I hope they will not be satisfied until, in every respect, its university can be considered as at least the equal of that institution which, more than all things in its history or in its possession, makes the State of Michigan known and honored throughout the country.

THE COLLEGE OF AGRICULTURE.

The college of agriculture has been reorganized and its course of study materially changed. It is now practically separated from the other departments of the university in respect to both its requirements for admission and its course of study; and it is only so far connected with the other departments as the instruction in them may coincide with that required in the agricultural course, in which case the necessity for separate instructors is avoided. But it will be impossible to carry forward the agricultural college, on the proposed plan, without an increase in the available teaching force. If we wait for large numbers of agricultural students before we provide instructors, we shall wait in vain. The presence of learned instructors, ready to teach whatever is valuable in science as related to agriculture, will draw students to the institution. There should be a professor of entomology, a professor of veterinary science, and a professor of botany provided for, at an early day; while the multitudinous and distracting duties of the present professor of agriculture should, in a large measure, be placed upon a farm superintendent, thus giving time and opportunity to the professor of agriculture to concentrate his attention on strictly experimental

work, and the publication of bulletins giving the results of experiments, and upon teaching so far as may be required.

In the natural order of things, in view of the change in the course of study and the relation of the experimental farm to the agricultural college, the place for the college will be found to be at the farm, and, with the increase in the number of students and teachers, some provision will need to be made for the accommodation of the students and teachers beyond what the present commodious farm house can furnish. The erection of cottages, more or less in number according to the need, neat and attractive, but not extravagant—not better than the average successful farmer would build for his home, would seem to be the most economical and satisfactory way of meeting the requirements of the situation. Such an arrangement will give the farmers of the State an agricultural college to all intents and purposes separate from the university, at an expense exceedingly moderate, both in the original outlay and the annual cost, compared with what would be required for a new institution separated in every particular from the university.

The college of agriculture, as now organized, offers an opportunity to the sons of farmers, with a good common school education, to begin at once the work of securing, not only a scientific knowledge of agriculture, but a general education which will be of the greatest service in fitting them for the duties of citizenship. I sincerely hope that many will avail themselves of the opportunity to take the course of study now offered. It is a mistaken idea that any profession is ennobled or made more attractive by pushing its technical and manual operations at once to the front to the exclusion of the intellectual culture which makes the man before the specialist. No matter what the occupation, mental culture is the first essential for it. The best-trained and best-educated farmer will not be the one who neglects his arithmetic and grammar to study soils and stock, but it will be the one who trains his mind to do good work in whatever he may engage in, and then applies himself to the acquisition of the special and technical knowledge necessary for successful farming. Our agricultural course, as now prescribed, happily combines the two processes, discipline and the acquisition of technical knowledge. If the college shall receive the generous support of the people, it will amply meet the wants of the people for agricultural education.

FARMERS' INSTITUTES.

While but few students have been at work on the farm in practical agriculture, much has been done by the department for the improvement of agriculture in the State, by the holding of farmers' institutes as often as circumstances permitted during the past year, and at various points in the State. The value of these institutes can be best judged by the farmers for whose benefit they were held. I do not doubt that the institutes are of real benefit to the State, and I think that special legislative provision should be made for their support. Minnesota is and must be, essentially, an agricultural State, and whatever will promote the interests of a diversified agriculture, the legislature of the State should be careful to provide for.

THE COLLEGE OF MEDICINE.

I am not satisfied with the present condition of the college of medicine. I have no fault to find with the faculty. They are gentlemen of learning in their profession, and well-fitted, I do not doubt, to give instruction in their several branches of learning. But they do not give instruction, and, under the present plan of organization, they can not. Year by year we announce, for the edification of all students who may be thinking of entering our college of medicine: "No instruction is offered in this college. The faculty is an examining body solely." I am clearly of the opinion that the college of medicine should either be made more or be made less.

If all medical students in the State were willing, or were required, to take the examinations of this college for a degree, and could not practice without a degree, the present organization of our college of medicine would be excellent. Indeed in some respects it would be an ideal arrangement, the examining body being entirely different from the teaching force. But as that is not and can not be, it seems to me that the machinery of the present organization costs more than the product is worth. It is to be hoped that some plan may be devised by which the university may be able to give instruction in medical science, and do something, as I think it ought, to elevate that science in the State. Whatever plan may be devised, I should hope it would be one that would unite in its support the medical profession in the State, and would se-

cure the hearty co-operation of the professors in the various medical colleges of the State, who are already engaged in giving instructions in the science of medicine. I do not ask for immediate action upon this subject, because I think it probable that in two or three years the situation will be more favorable than now. But I desire it to be distinctly understood that the university of Minnesota proposes at no distant day, to establish a college of medicine that shall give instruction, that shall be inferior to no medical school in the country, and that the only reason why the regents delay in establishing such a school is their inability, at the present moment, to establish such a school as they desire, and their entire unwillingness to establish a school that shall merely add one to the multitude of medical institutions that are already engaged in adding largely each year to the number of half-qualified practitioners of medicine.

In connection with this subject I desire to put on record my very decided opinion that when such college is established, fees should be charged to the students—fees large enough to pay the salaries of the professors, and thus the State be relieved, in a large degree, of the expense for what, though serviceable to the State, is yet in the main, a matter of personal advantage to the students and prospective doctors of medicine. This will be a departure from the policy of the regents in respect to an absolutely free education. But there is a limit beyond which free education should not go. In my judgment the line should be drawn at professional education.

THE PREPARATORY CLASS.

The improvement in the character of the high schools of the State, the manifest desire of school boards and principals to improve the standing of their schools and to make them first-class, and the fact that a respectable number of students now enter the university as freshmen, all give assurance that the necessity for maintaining in the university a sub freshman, or preparatory, class is passing away. I congratulate the board on the prospect of soon having the university relieved of this work, which properly belongs to the schools and not at all to a university. The dropping out of the preparatory class, heretofore the largest in the institution usually, will undoubtedly diminish the number of students for a time. But it will enable the university to devote its efforts to higher work exclusively, and the time

will not be long before the number of students will be as great as ever, and they will all be college students.

GRADUATE DEPARTMENT.

As the university thus prepares to abandon to the schools instruction in the lower branches, it should also prepare to carry its own students further in their studies than heretofore, and especially it should be prepared to give instruction in its own lines of work to graduates who may desire to carry their studies and investigations further than the limits of the present curriculum allow. The graduate department of the university, already established and in successful operation, thus far without any additional expense to the State or the university, will meet this requirement. There were in the graduate department during the year 1884-85, 17 students, 15 of whom were graduates of the university of Minnesota and 2 of other institutions. In the year 1885-86 there were in the same department 25 students, 12 of whom were graduates of the university of Minnesota, while the other 13 represented 11 different colleges. The work in this department, though not less important than that in any other, must yet be subordinate to that of the regular academic courses, and can be carried forward only so far and so long as the time and zeal of the instructors may permit. With the abandonment of the preparatory year, however, will come enlarged opportunities for work in this department, and for such original work in connection therewith as the professors desire to do, but which they can not do to any great extent while their attention and time are so largely occupied with the instruction of undergraduates. It is of no small importance that the university should be able to do work in the line of original investigation. This it can never do, so long as its professors are fully occupied with the routine work of teaching. But with a generous support of the graduate department much may be hoped for in the way of original investigation both by students and professors. I ask at this time no special action in behalf of the graduate department, but I do ask that its work shall be appreciated and encouraged, and that the board shall be ready to provide whatever may be necessary in the line of books or apparatus to make this department a blessing, not only to the graduates of our own university, but also to the graduates of all colleges who may be inspired by a genuine longing for higher knowledge.

I can not close this, my first biennial, report without expressing my deep sense of obligation to all with whom I have been associated in work, and especially to the board of regents, for their unvarying kindness and readiness to co-operate in every plan which has seemed likely to promote the welfare of the university. With such hearty co-operation and support from the regents and the faculty, my work has been pleasant, and with the same spirit manifested in the future I can not doubt that the university will increase rapidly, not merely in the number of its students, but in the number of its departments and in the extent and value of its work.

CYRUS NORTHROP,
President.

APPENDIX "A."

At the thirteenth annual commencement, held June 12, 1885, the following persons received degrees:

COLLEGE OF SCIENCE, LITERATURE AND ARTS.

For Bachelor of Arts.

Mary Lathrop Benton.....	Minneapolis.
Samuel Lolfest Langland.....	Cedarville.
Charles William Moulton.....	Cleveland, O.

For Bachelor of Science.

James Gray.....	Minneapolis.
Cassius Marcius Locke.....	Minneapolis.
Curtis Langdon Greenwood.....	Rochester

For Master of Science.

Clarence Luther Herrick, B. S., 1880.....	Minneapolis.
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For Bachelor of Literature.

Howard Strickland Abbott.....	Rockford.
Albert Melancthon Baldwin.....	Tower City, D. T.
Bertha Minnie Brown.....	Richfield.
Mary Eliza Irving.....	Owatonna.
Ida Victoria Mann.....	Minneapolis.
Mary Lorain Smith.....	Le Sueur

COLLEGE OF MECHANIC ARTS.

For Bachelor of Mechanical Engineering.

Elbert Ellsworth Bushnell.....	Minneapolis.
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For Bachelor of Civil Engineering.

Patrick Thomas Fitzgerald.....	Donnelly.
Albert Irving Reed.....	Hastings

COLLEGE OF AGRICULTURE.

For Bachelor of Agriculture.

Thomas Ezekiel Wurrell.....Champlin.

COLLEGE OF MEDICINE.

For Bachelors of Medicine.

Karl Henry E. Castle.....St. Paul.

William Byther Pineo.....Minneapolis.

At the fourteenth annual commencement, held June 3, 1886,
the following persons received degrees:

COLLEGE OF SCIENCE, LITERATURE AND ARTS.

For Bachelors of Arts.

John Williams Adams.....Lake City.

Hennry James Grannis.....High Forest.

James C. E. King.....Otsego.

Elizabeth Quincy Sewall.....St. Paul.

William Franklin Webster.....Clearwater.

Ida Victoria Mann, B. S., 1885.....Minneapolis.

For Bachelors of Science.

John William Bennett.....Montrose.

Fremont Crane.....Mapleton.

Mary Whitmore Elwell.....Minneapolis.

Frank Amos Johnson.....Marshall.

Joseph Kennedy.....Oshawa.

Lillian Lincoln Ware.....Brownsdale.

For Bachelors of Literature.

Jennie May Amy.....Minneapolis.

Leo Melville Crafts.....Minneapolis.

Ada May Kiehle.....Minneapolis.

Maud Julia Lyall.....Minneapolis.

Josephine Florence Marrs.....Minneapolis.

May Alden Powell.....Minneapolis.

For Bachelor of Architecture.

Charles Comstock Woodmansee.....Minneapolis.

For Bachelors of Medicine.

William C. E. Van Damm.....Minneapolis.

A. W. Brunnell.....Minneapolis.

James J. O'Reiley.....Olga, Dakota.

APPENDIX "B."

The following tables exhibit the enrollment and classification of the students:

SUMMARY, 1884-85.

COLLEGE OR DEPARTMENT.	CLASS	Gentlemen.	Ladies.	Totals.
Graduate Students.....		9	8	17
College of Science, Literature, and Arts.....	{ Senior.....	5	4	9
	{ Junior.....	11	9	20—29
	{ { Senior.....	3		3
	{ { Special.....	4		4
Mechanic Arts.....	{ Artisans' { A	4		4
	{ Training { B	2		2
	{ School. { C	12		12
		50		50—75
Agriculture.....	Junior.....	1		1
	{ Sophomore.....	26	4	30
Collegiate Department.....	{ Freshman.....	31	16	47
	{ Subfreshman.....	34	20	54
	{ Special.....	35	22	57—188
Totals.....		227	83	310

SUMMARY, 1885-86.

DÉPARTMENT.	CLASS.	Gentlemen.	Ladies.	Totals.
Graduate Students.....		19	6	25
College of Science, Literature and Arts.....	{ Senior.....	9	8	17
	{ Junior.....	26	1	27—44
College of Mechanic Arts.....	{ Senior.....	1		
	{ Junior.....	1		2
	Sophomore.....	30	9	39
	Freshman.....	30	17	47
	Subfreshman.....	83	30	113
	Special.....	33	17	50—249
	Artisans' A.....	4		
	" B.....	1		
	" C.....	17		
	" D.....	64		50
Totals.....		318	88	406

Of the whole number of students in the year 1884-85 all but twenty-nine were enrolled as residents of Minnesota; and in the year 1885-86 all but thirty. Some of those who are enrolled as residents of Minneapolis are residents only for the purpose of gaining an education, their families residing in the city temporarily for the education of the children.

The number of students in the regular classes of the university, in the various courses, during the two years covered by this report, was as follows:

1884-85.

	Classical.	Scientific.	Modern or Literary.	Total.
Senior.....	3	4	5	12
Junior.....	5	5	6	16
Sophomore.....	8	17	5	30
Freshman.....	11	19	17	47
Sub-Freshman.....	8	29	17	54
Total.....				159
To which should be added two Seniors in Civil Engineering, one Senior in Me- chanical Engineering, one Senior in Agriculture and one Junior in Archi- tecture.....				5
Total.....				164

1885-86.

Senior.....	5	6	6	17
Junior.....	7	15	5	27
Sophomore.....	8	19	12	39
Freshman.....	9	24	14	47
Subfreshman.....	14	69	30	113
To which should be added one Senior in Architecture and one Junior in Civil Engineering.....				2
Total.....				245

APPENDIX "C."

The following statement shows the towns from which came candidates for admission to the university, who presented certificates of the state high school board—also the number of certificates presented from each town represented—the subjects upon which the certificates were given—and the number of candidates presenting certificates in the years 1884-85, and 1885-86:

In the year 1884-85:—Austin 11, Anoka 16, Albert Lea 5, Faribault 8, Minneapolis Academy 12, Mankato 14, St. Peter 9, Fergus Falls 12, Lake City 28, Litchfield 10, Winnebago City 14, Cannon Falls 6, Red Wing 8, Willmar 2, Duluth 1, Winona 5.

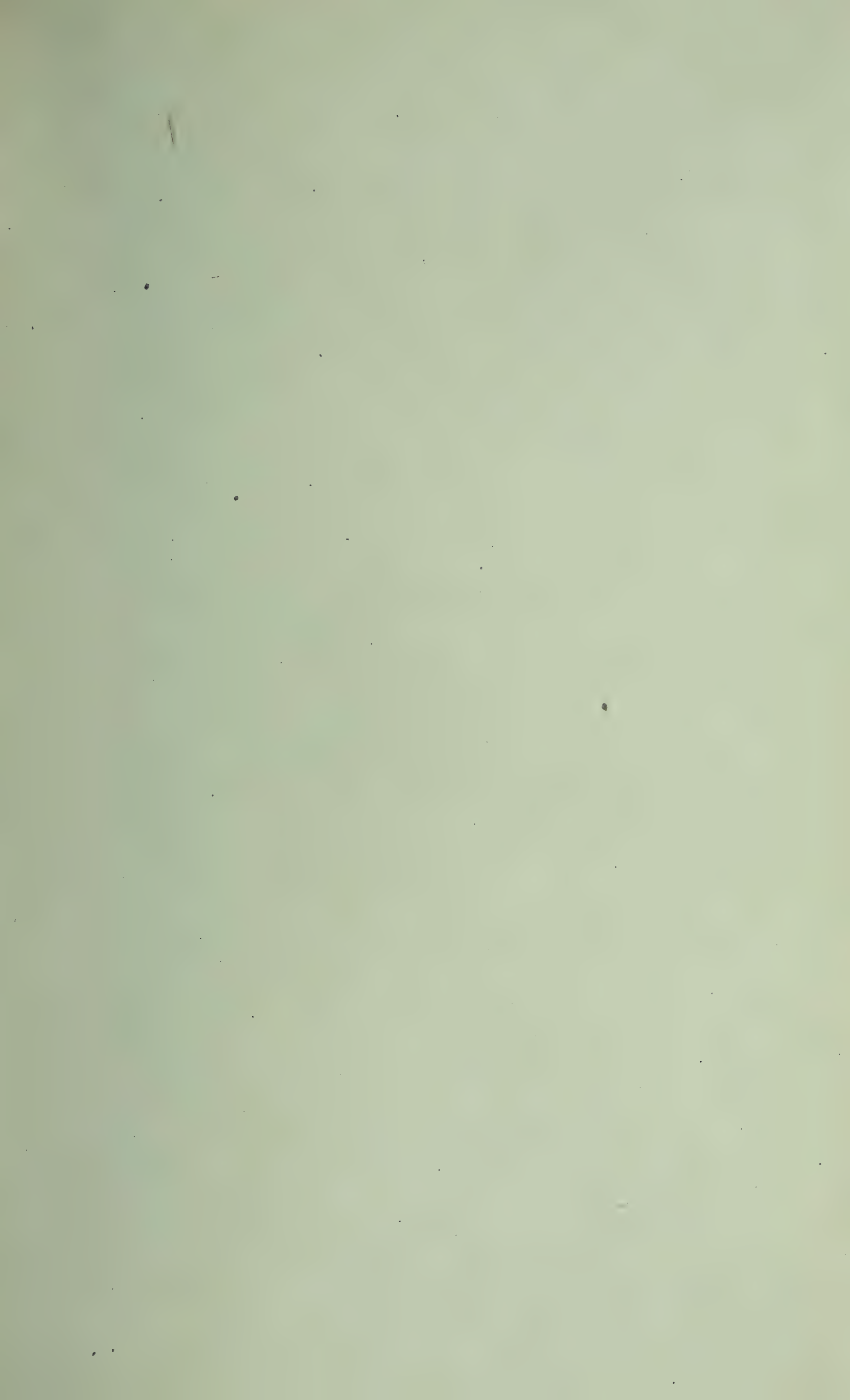
In the year 1885-86:—Albert Lea 7, Anoka 48, Elk River 15, St. Cloud 13, Farmington 7, Lake City 82, Litchfield 10, Sauk Centre 5, Hastings 11, Garden City 1, St. Peter 21, Henderson 33, Red Wing 9, St. Charles 2, Carver 7, Mankato 8, Howard Lake 7, Owatonna 14, Minneapolis Academy 39.

The certificates presented were as follows:

In 1884-85:—Arithmetic 11, elementary algebra 11, plane geometry 12, geography 6, United States history 4, general history 8, physiology 8, English grammar 8, Latin grammar 6, Cæsar 9, Cicero 8, Greek grammar 2, physical geography 10, natural philosophy 11, elementary astronomy 13, ancient history 6, higher algebra 7, solid geometry 3, anabasis 3, Virgil 7, chemistry 5, botany 3.

In 1885-86:—Arithmetic 26, elementary algebra 28, plane geometry 17, geography 23, United States history 21, general history 17, physiology 17; English grammar 17, Latin grammar 13, Cæsar 16, Cicero 12, natural philosophy 22, physical geography 33, ancient history 12, higher algebra 7, solid geometry 11, Virgil 8, chemistry 13, botany 11, elementary astronomy 13, drawing 2.

The number of candidates presenting their certificates was twenty-seven in 1884-85, and forty-five in 1885-86.



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FIFTH BIENNIAL REPORT

[No. 16 IN SERIES.]

OF

THE BOARD OF REGENTS

OF

THE UNIVERSITY OF MINNESOTA,

TO THE GOVERNOR.

FOR THE

FISCAL YEARS 1887 AND 1888, ENDING JULY 31ST.

TRANSMITTED TO THE LEGISLATURE AT THE TWENTY-SIXTH (FIFTH BIENNIAL) SESSION, 1889.

ST. PAUL, MINN.:
THE PIONEER PRESS COMPANY.
1889.

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NOTE.

The present university "charter" was enacted by the legislature, Feb. 18, 1868. The first annual report was that for 1868, transmitted to the legislature of 1869. The last annual report was for that of 1878. There have been accordingly eleven annual reports, and this fifth biennial report is No. 16 of the series.

The annual reports of progress of the geological survey of Minnesota will be found in the annual reports of the board of regents, beginning 1872. The annual report of the survey for 1881 was printed separately, no other reports of or to the board being printed in that year.

THE UNIVERSITY OF MINNESOTA, }
OFFICE OF THE BOARD OF REGENTS, }
Nov. 1, 1888. }

SIR: In compliance with law, I have the honor to forward herewith the fifth biennial report of the Board of Regents for the fiscal years 1887 and 1888, ending July 31st.

Very respectfully,

Your obedient servant,

HENRY H. SIBLEY,

President.

To the Hon. A. R. MCGILL, *Governor of Minnesota.*

THE BOARD OF REGENTS.

The board of regents is composed at this date of the following gentlemen:

The Hon. GREENLEAF CLARK, M. A., St. Paul; term expires in.....	1889
The Hon. CUSHMAN K. DAVIS, St. Paul; term expires in	1889
The Hon. KNUTE NELSON, Alexandria; term expires in.....	1890
The Hon. JOHN S. PILLSBURY, Minneapolis; term expires in.....	1890
The Hon. HENRY H. SIBLEY, LL.D., St. Paul; term expires in.....	1891
The Hon. GORDON E. COLE, Faribault; term expires in.....	1891
The Hon. W. M. LIGGITT, Benson; term expires in.....	1891

AND EX OFFICIO.

The Hon. A. R. MCGILL, St. Paul, the Governor of the State.	
The Hon. DAVID L. KIEHLE, M. A., Minneapolis,	
The State Superintendent of Public Instruction.	
CYRUS NORTHROP, LL.D., Minneapolis,	
The President of the University.	

OFFICERS OF THE BOARD.

H. H. SIBLEY.....	<i>President</i>
D. L. KIEHLE.....	<i>Recording Secretary</i>
H. P. BROWNE.....	<i>Treasurer</i>

EXECUTIVE COMMITTEE.

J. S. PILLSBURY	<i>Chairman</i>
CYRUS NORTHROP.....	<i>Secretary</i>
D. L. KIEHLE.	

COMMITTEE ON COURSE OF STUDY.

C. K. DAVIS,	CYRUS NORTHROP,	GREENLEAF CLARK.
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COMMITTEE ON AGRICULTURAL FARM.

J. S. PILLSBURY,	KNUTE NELSON,	W. M. LIGGITT.
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COMMITTEE ON LIBRARY AND MUSEUM.

D. L. KIEHLE,	GREENLEAF CLARK,	CYRUS NORTHROP.
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AUDITING COMMITTEE.

GORDON E. COLE,	A. R. MCGILL.
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REPORT
OF THE
UNIVERSITY OF MINNESOTA.

To His Excellency A. R. McGill, Governor of the State of Minnesota:

The board of regents has the honor to submit herewith its report of the affairs of the university for the year ending July 31, 1888.

The following is a general statement of the resources of the university:

Amount of university fund July 31, 1888	\$837,361 51
Revenue from the above, 1887	35,296 24
Revenue from the above, 1888	36,713 72
State appropriation, 1887	35,000 00
State appropriation, 1888	40,000 00

For the full history and condition of the several departments and colleges of the university you are respectfully referred to the report of the president, which is made a part of this report.

In presenting this report the board begs to assure your excellency that it has been its purpose both to improve the efficiency of established departments and to extend the organization within the limits of its resources until every demand of every calling is satisfied, affording opportunities of culture necessary to skill in the artisan and to intelligence in the citizen.

In addition to the ample provision for the literary and classical culture demanded by the learned professions, this board has not forgotten the duties laid upon it by the legislature in committing to its administration the fund of what is known as the "agricultural land grant." The design of this grant is very definitely stated as "in order to promote the liberal and practical education of the industrial classes."

The law is, moreover, specific in its requirement that the objects provided for be:

1. Military tactics.
2. Mechanic arts.
3. Agriculture.

Giving attention to the first requirement, the board has caused to be erected a military drill hall, and has made frequent and persistent application to the general government for the detail of an officer to take charge of this department, but until lately without success. Lieut. Glenn, of the twenty-fifth U. S. Infantry, has at length been assigned to duty in the university as professor of military science and tactics. In the meantime such temporary provision was made as was within the reach of the board, until regular and permanent arrangements could be effected.

In the department of mechanic arts we are prepared to report most gratifying progress. With an appropriation granted by the legislature a very fine building has been erected and fully equipped at a cost of about \$45,000.

In this department during the past year were gathered in the aggregate over two hundred of the children of the industrial classes and were taught to work in wood and iron, to design and carve, to draw and execute in carpentry and in machinery. Others were made proficient in surveying and civil engineering. This department is sustained at an annual expenditure of about \$8,000 for current expenses.

Regarding the last requirement of this law, the board has, in good faith, and in its best judgment from the first, made ample provision "to teach such branches of learning as are related to agriculture," and has established a course known as that of the college of agriculture. It is not to be disguised that this course has not been valuable to the industry for which it was intended, but for what reason it is not necessary here to consider.

Yet, while very few have pursued this course and taken its degree, it would be unjust to assume this as the measure of the contribution which this university makes to agriculture as compared with other institutions known only as agricultural colleges, inasmuch as the subjects of English, mathematics, and the natural sciences, which in the latter are accredited to the agricultural course, are in our university pursued as thoroughly in either of its several courses. Hence we may in fairness ask the friends of agriculture to examine the generous provision made for the departments of natural history, botany and geology in the museum and science hall, the last building erected by special appropriation of the legislature.

However, the board has not felt relieved from responsibility in studying the situation and in an honest effort to improve the educational facilities of those who pursue the calling of agriculture. After careful study and a free consultation the board has organized and opened a "school of agriculture," to be located at the experimental farm and provided with its own buildings and equipment.

Its course will cover the subjects of the first two years as usually pursued in agricultural colleges. It is planned to meet the necessities of such as wish practical agricultural education of an academic grade, and, while complete in itself, will be preparatory to the more thorough course of the college.

As this school will receive students upon completing a common school education and will occupy them in school at the most convenient season of the year, it is the hope of the regents that this effort to increase our educational facilities will commend itself to the public and will receive generous support by your excellency and the legislature.

EXPERIMENTATION.

The board also reports that under the liberal provisions made by the general government in an annual appropriation of \$15,000 for the promotion of agricultural experimentation it has thoroughly reorganized the work of the experiment station. The work has been separated into divisions, of (1) general farming; (2) stock and dairying; (3) horticulture; (4) entomology; (5) chemistry; (6) veterinary. To these have been assigned experts of special ability with a director at the head, constituting together the "corps of experimentation."

To this corps the regents have turned over without charge, for their use, so much of the entire farm as they desire, its land, buildings, equipment of stock, utensils, etc.

New buildings and equipments have been provided as far as means would allow and every possible facility afforded to render efficient service.

DEPARTMENTS OF LAW AND MEDICINE

have also been organized opening with the present scholastic year.

The board has recognized that professional instruction ought not to be at the charge of the state, and has accordingly required a tuition fee of students entering either of these departments sufficient to meet the expenses of instruction. It is proper here to say that excepting the deans of the medical faculty and the law department the services of the eminent gentlemen occupying the several chairs are gratuitously contributed to the university.

The board is gratified to report substantial improvement in the facilities afforded in the university and a large increase in the attendance of students, and therefore with encouragement bespeak of your excellency and the legislature the same generous consideration for the future which in the past has provided the solid foundation upon which it now rests.

It is proper to state, that in consequence of the failure of bills at the last session of the legislature, containing appropriations for the completion of the buildings requisite to furnish the several departments of the university with ample room for some years to come, and for other objects equally indispensable to meet the wants of a first class institution, the board of regents has been prevented from finishing the work which it earnestly hoped to effect during the current year. The necessity for the expenditures embraced in the bills referred to was made so apparent to the members of the two houses that there was no serious objection made to their passage, but unfortunately, the men who had them in charge neglected to bring them forward in time to be acted upon before the adjournment.

The board has also to report that the matter of the third and fourth volumes of the report of the geological survey is now ready for the printer. Indeed, a part has been already printed, as far as the the funds provided have allowed. It is requested

that additional provision be made for the completion of this report in uniform style with the one published, and which has been to the great credit of the state and the satisfaction of our people.

As your excellency has been *ex officio* a member of the board of regents for two years past, attended its meetings, and is therefore fully informed of its operations, the board respectfully urges that you will incorporate in your message a recommendation to the next legislature, to appropriate the sum requisite to erect new buildings and to complete and fully equip the buildings, already begun, which are indispensable to the proper prosecution of the work of the several departments of an institution which is a credit to the state, and will soon take rank among the leading universities of the Union.

For this purpose the board deems an appropriation of \$100,000 necessary for the completion, equipping and heating of the science hall and museum, already begun; also an appropriation of \$100,000 for the erection, equipment and heating of an agricultural building, including a physical and chemical laboratory, the old agricultural building and chemical laboratory having been virtually destroyed by fire, and, moreover, being too small for the present needs of the university; also an appropriation of \$35,000 for the erection and equipment of a building for the law department, for which department there is at present no building and no suitable rooms in existing buildings; also an appropriation of \$15,000 for the purposes of ventilation, repairs and general improvements.

Respectfully submitted,

H. H. SIBLEY,
President Board of Regents.

THE UNIVERSITY OF MINNESOTA,
MINNEAPOLIS, MINN., Nov. 1, 1888.

*To His Excellency, Hon. A. R. McGill, Governor of the State of
Minnesota.*

SIR: I have the honor to transmit herewith the fifth biennial report (No. 16 of the series), of the condition and progress of the University for the years 1886-87, and 1887-88.

Very respectfully,

Your obedient servant,

CYRUS NORTHROP,

President.

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REPORT

OF THE

UNIVERSITY OF MINNESOTA.

To His Excellency, Hon. A. R. McGill, Governor of the State of Minnesota.

The years 1886-87 and 1887-88 have been years of general prosperity in the University of Minnesota, and the latter of these years has been one of notable progress and development. Not only has the work of instruction been carried forward satisfactorily in all the departments which existed at the opening of this period, but the work in some of these departments has been enlarged, new departments have been organized, and the institution in its scope of instruction has been made in reality, what it has heretofore been in theory only, a university. In connection with this statement of facts respecting the establishment of new departments, I can not forbear expressing my hearty thanks to the board of regents for the courage, wisdom, and unselfishness displayed by them in bringing about these results under circumstances which would have deterred a more timid board from taking any action. The gain to the university and to the state in having the actual wants of scholars in the state properly met is incalculable. Some of the results will be apparent in the next report of the president of the university; but it is not too soon even now to say that the evidence is already sufficient to prove the wisdom of the action of the board of regents.

DEGREES CONFERRED.

Since the last report, degrees have been conferred as follows:

	1887.	1888.
Bachelors of arts.....	7	6
Bachelors of science.....	12	12
Bachelors of literature.....	5	14
Bachelor of civil engineering.....	1	1
Bachelor of mechanical engineering.....	1	2
Bachelor of agriculture.....	1	0
Master of science.....	0	1
Master of arts.....	1	0
Bachelors of medicine.....	2	0
Doctor of philosophy.....	0	1
Civil engineer.....	0	1
	30	38

The names and residences of these graduates are given in Appendix "A."

The following table shows the number and kinds of degrees which have been conferred by this university :

	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	Total.
B. A.....	2	1	3	3	9	5	8	4	10	11	8	9	3	6	7	6	95
B. S.....		1	2	5	3	8	10	9	10	9	7	9	3	6	12	12	106
B. L.			1		4	1	6	4	7	11	7	3	6	6	5	14	75
B. C. E.....			3	3			2				2	3	2		1	1	17
B. M. E.....						1					1		1		1	2	6
B. Arch.....					1									1			2
B. Agric.....										1			1		1		3
M. A.....								1	1						1		3
M. S.....										1			1			1	3
M. B.....												2	2	3	2		9
Ph. D.....																1	1
C. E.....																1	1
Totals.....	2	2	9	11	17	15	26	18	28	33	25	26	19	22	30	38	321

The whole number of persons graduated is 321, five persons having received degrees both in science and in engineering, one person having received a degree both in arts and in science, and six bachelors having received a master's degree, after passing the required examinations. No honorary degrees are conferred by this university.

The whole number of women who have been graduated is 85, viz.: Bachelors of arts, 13 ; of science, 21 ; of literature, 51 ; of medicine 1 ; one person having received a degree both in arts and in literature.

ATTENDANCE.

There has been each year an increase in the number of students in attendance as compared with the number in attendance the preceding year. There has also been a great improvement in the promptness with which students have registered at the beginning of the term, and in the regularity of their attendance. In the college of science, literature and arts more than three-fourths of the students registered during the year 1887-88 were registered and in attendance during the first week of the year.

For the enrollment and classification of students during the two years covered by this report, 1886-87 and 1887-88, see appendix "B."

ADMISSIONS.

The record of admissions to the university is as follows :

Record for 1886-87.

	Gentlemen.	Ladies.	Total.
Examined.....	134	65	199
Admitted.....	64	36	100
Rejected.....	70	29	99

Record for 1887-88.

	Gentlemen.	Ladies.	Total.
Examined.....	116	35	151
Admitted.....	76	32	108
Rejected.....	40	3	43

The number of high school board certificates presented at the university during the year 1886-87 was two hundred and ninety-two, and during the year 1887-88, three hundred and fourteen.

The different towns represented by the candidates presenting the certificates in 1886-87, and in 1887-88, the number of certificates from each town, the subjects, and the number of candidates presenting certificates, are shown in appendix "C."

COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

The work in this college has been carried forward with vigor and with increasing efficiency. The number of students has largely increased, especially in the four college classes in the regular courses leading to degrees. In 1888 Prof. John Dewey, Ph.D., an assistant professor in the University of Michigan, was elected professor of mental and moral philosophy and logic, to fill the chair formerly held by Prof. Ormond, and more recently by Mr. Thomas Peebles as instructor. Prof. Dewey was elected to enter upon his duties at the beginning of the year 1888-89. Mr. Frederick S. Jones, instructor of physics, was absent on leave during the year 1887-88, engaged in study in the University of Berlin, Germany. He will also be absent during the year 1888-89, continuing his studies at the same university. During his absence his place has been and will be filled by Mr. John Whitmore, who has proved himself a very capable and successful instructor. Mr. Conway McMillan was employed during the third term of each of the years embraced in this report as an additional instructor in botany, and has further been engaged to give instruction the coming year in both the first and third terms. Henry F. Nachtrieb, assistant professor of biology, was elected in the spring of 1888 state zoologist, his relations to the university as an instructor not being changed thereby. Mr. Charles F. Sidener, instructor in chemistry, was in 1888 made assistant professor of chemistry.

I note with pleasure in connection with the work of this college the increased number of students who have taken the full preparatory course in Latin and who continue to pursue the subject in the university to the end of the course. The importance of training in Latin is evidently appreciated in all our preparatory schools much better than formerly, and the readiness with which the schools fall into line in the study of the classics is one of the hopeful signs of culture that are so pleasant and numerous in these years of manifest progress.

THE PREPARATORY CLASS.

In my last report I congratulated the board of regents on the prospect of soon having the university relieved of the preparatory work which properly belongs to the schools. I believe the

time has come when the board may safely decide when the preparatory class shall be discontinued; and I do not think that any wrong would be done if the class were to be abolished at the end of the present year. Its removal will be helpful to the preparatory schools, by making a higher standard of work necessary in order to prepare students for entrance to the university, and will be helpful to the university not only by relieving it from lower grade work, but by promoting the unity of classes and the uniformity of progress among members of the same class, all of them entering the regular college work at the same time, and none of them having an opportunity as at present to fall by the way, inside of the walls of the university but yet outside of the college classes. At the same time I do not urge any immediate or hasty action. Many interests are involved in the question. The preparatory class grows smaller each year and the number of students who enter the freshman class without passing through the preparatory department grows larger each year. From this the inference is inevitable that the necessity for maintaining the preparatory department is constantly diminishing; but whether the time has actually arrived for discontinuing that department is a question to which I ask the regents to give, at an early day, their careful attention.

THE COLLEGE OF MECHANIC ARTS.

The college of mechanic arts has prospered during the two years covered by this report, having had a larger number of students than heretofore, and having enlarged its work in several directions. A course in electrical engineering leading to the degree of bachelor of electrical engineering was added at the beginning of the year 1887-88; the artisans' training school was reorganized and named "the school of practical mechanics and design;" a new course in the care and management of engines and boilers was added; also a new course in designing and wood carving. Mr. William R. Hoag, an instructor in civil engineering, was in 1888 elected assistant professor in civil engineering. Mr. Charles G. Trefethan was employed as an additional instructor in metal working during the year 1887-88. Mr. Henry T. Ardley was engaged at the beginning of 1888 to take charge of the carving and free hand drawing. Mr. Ardley has proved a most valuable assistant, and has succeeded in awakening a good degree of interest in the work under his charge, and it is very

evident that a much larger number of ladies and gentlemen will apply for instruction in his special work the coming year. The need of better instruction in free hand drawing had long been felt, and Mr. Ardley, by supplying this need adds very largely to the value of his services. With the work done in the college of mechanic arts, in the shops, and in the new school of agriculture at the farm in which thorough instruction in carpentry and wood work generally is to be given, the regents may rest assured that one object aimed at by congress in its appropriation of public lands for education in agriculture and the mechanic arts not only can be attained, but has been attained, the number of students already pursuing the work in these various places being sufficiently large to insure a complete success, and to indicate a very general popular interest in the various courses of instruction offered. Not the least gratifying feature in the existence of the school of practical mechanics and design is, that not unfrequently students who originally intended to pursue shop work only, are ultimately led to pursue a thorough course in mathematics, and to become engineers.

THE COLLEGE OF AGRICULTURE.

The number of students in the college of agriculture has continued to be small, although there have been more in attendance during the last two years than at any previous time. In the regular course the number of students who were candidates for a degree has varied from three to six; and in the school of practical agriculture the number has varied from ten to fifteen. It would seem that every impediment to entrance into the college of agriculture that could be removed had been removed by the action of the regents in establishing the terms of admission by which only the branches of study ordinarily pursued in the common school are required for admission to the sub-freshman class. But the change in the terms of admission has produced little if any effect in increasing the number of students, and the only legitimate conclusion that can be drawn from existing facts is that while a large number of farmers' sons and daughters are eager to secure a collegiate education and are actually securing it at the university, the need of a full four years course of study in agriculture has not yet been very generally felt, and therefore these sons and daughters of the farm have turned their attention to the scientific course, as furnishing

them on the one hand much of the special knowledge they would gain from the agricultural course, and fitting them on the other hand for professional or educational work for which the agricultural course would not so well prepare them. But be the cause what it may, the fact is undoubted that comparatively few students can be induced at present to spend four years on the agricultural course with a view to life on a farm at the conclusion of their studies.

THE SCHOOL OF AGRICULTURE.

It is, however, none the less important that young men should be trained to the work of the farm, and it is evident that some school in which they can be thus trained, and can acquire at the same time a good general education while keeping in mind their purpose to become farmers, is very desirable; and such a school the board of regents has accordingly established at the university farm. A commodious building has been erected for the comfort of the students, and for the school work. The course of study extends through only two years, each year embracing two terms of twelve weeks each. The course of study for the first year embraces English, arithmetic, algebra, accounts, physical geography, botany, physics, wood work and mechanical drawing, lectures in farm management, farm architecture, and horticulture. In the second year the course of study embraces algebra, geometry, civil government, political economy, agricultural chemistry, animal physiology, lectures on grains, soils and fertilizers, stock and dairying, horticulture and veterinary. The admission to this school is easy, all applicants who have completed a common school course in English, arithmetic, United States history and geography, being accepted. The school will open Oct. 18, 1888, and close April 17, 1889. Such students as desire to remain at the farm during the summer and engage in practical agriculture under the direction of the professor of agriculture, will be permitted to do so, and will receive reasonable remuneration for their work.

This school of agriculture presents many attractions to farmers' sons. First of all, it offers a good general education, of a much higher character than that which can be obtained at the ordinary school. Second, it costs very little, the tuition being free and the expense being limited to the actual cost of maintaining the table and caring for the house, the amount not ex-

ceeding three dollars a week. Third, opportunity is afforded to earn at least part of a support by labor at the farm. Fourth, in addition to the ordinary advantages of a good school with competent instructors, the students in this agricultural school will receive more or less instruction by lectures from the officers of the experiment station, and will have the opportunity to become familiar with the work of the experiment station and of the farm. Finally, the location of the school is admirable in respect to beauty of scenery, adaptation to study, security of health, and freedom from special temptations to evil. The principal of the school, whom the regents have elected, is W. W. Pendergast, formerly assistant superintendent of public instruction, a gentleman of large experience both in teaching and in agriculture. He will be very efficiently assisted by Henry W. Brewster, B.A., a graduate of the University of Minnesota and an experienced teacher. The present indications are that the advantages which this school offers to the boys of the state will be appreciated by them and by their parents. Already interested inquiries have been received from nearly one hundred students, of whom, it is believed, at least twenty-five have decided to enter the school in October. I congratulate the regents on the wise liberality which they have displayed in establishing and equipping this agricultural school, and I congratulate the farmers of Minnesota on having such a school to which they may send their sons, and be as certain as human infirmity will permit that they will get from it great good and only good.

THE AGRICULTURAL EXPERIMENT STATION.

Previous to the last session of Congress no direct appropriation had been made by the general government for the encouragement of experiment work in agriculture although generous appropriations had been made for the support of agricultural colleges. The passage of the Hatch bill appropriating \$15,000 annually to enable the agricultural college of each state to carry on experiments in agriculture, opened a new and more hopeful era for progress in scientific investigation of subjects having an important relation to the farming interests of the country. Immediately after the appropriation was made by Congress the regents of the University of Minnesota turned their attention to the thorough reorganization of the agricultural experiment station. Previous to that time the whole care

of the experiment station, of the university farm, and of the agricultural department of the university had devolved upon Prof. E. D. Porter, with no professional assistants, and aided only by unskilled farm labor. It was impossible that much progress in experiment work should be made so long as the station was in this condition, and it was wholly unreasonable to expect much progress. Excellent and important work was, however, done by Prof. Porter, in the way of preparation, so that no better place for a thoroughly organized corps of experimentation in which to do good work could be found in the country than the university farm as it was when it became possible to organize such a corps. In the organization of the agricultural experiment station in 1888 the board was exceedingly fortunate in their election of officers and in securing the services of all the gentlemen who were elected. Prof. E. D. Porter, being the professor of agriculture in the university, was made director of the station as was required by the law of the State of Minnesota. Otto Lugger, Ph.D. was called from the entomological bureau of the department of agriculture in Washington, to be entomologist and botanist in our experiment station. Samuel B. Green, B. S. of the Amherst Agricultural College was elected horticulturist. Daniel N. Harper, B. S. of Philadelphia, who had been strongly recommended to the board by that veteran in agricultural science, Prof. S. W. Johnson of the Sheffield scientific school, was elected chemist. Willet M. Hays, B. S. A., a graduate of Ames Agricultural College and a gentleman of practical experience in agriculture, was elected assistant in agriculture. Michael J. Treacy, M. R. C. V. S., a graduate of an English veterinary college, was elected veterinarian. Daniel W. Sprague was elected accountant and recorder. Provision was also made for additional labor clerical and manual as might be required — the organization of the corps being finally completed in the summer of 1888. Already much good work has been done at the station and elsewhere in the state, and three bulletins have been issued containing valuable information in reference to silos and ensilage, tests of varieties of corn for feeding values, examination of beets and other roots for sugar and feeding value; also timely and interesting papers respecting horticulture and entomology. In addition to the information disseminated in these bulletins, Dr. Lugger has rendered important service to the state by his personal investigations of the locusts and the chinch bugs, and by his recommendations of methods of obtaining relief from the

depredations of insects. The promise of valuable results to the state from the united efforts and labors of the corps of experimentation is exceedingly good and must be very gratifying to every one who desires to see the agricultural interests of the state promoted.

In order that the work of the experiment station might be done in the best manner, the board of regents has caused to be erected on the farm a new building to be devoted exclusively to the work of the experiment station. The building contains a chemical laboratory, and such other rooms as were deemed necessary for the work of the different members of the corps of experimentation as well as for the meetings of the corps, for the library and the museum. This building is nearly finished. New and greatly improved hot houses have also been erected for the work in horticulture. Further, in order that every possible facility might be furnished for experiments in feeding cattle, important changes and improvements have been made in a part of the large barn specially devoted to experiment work, scales have been provided for most expeditiously and conveniently weighing materials and animals, and everything which could be done to secure accurate and permanent records of results reached by experiments has been done. The board of regents, having thus thoroughly reorganized the experiment station, having elected a corps of experimentation composed of gentlemen of whose ability and fitness there can be no question, and having provided ample accommodations for the work of the station in buildings, in gardens, in the fields and in apparatus, may well be justified in feeling an honorable pride in their work, and in cherishing the confident expectation that the results will justify their expenditures of money, and prove the wisdom of their plans.

The following resolutions passed by the board of regents explain the plan upon which the agricultural experiment station is organized. It is believed that the plan of organization is such as to secure unity of action among the members of the corps of experimentation and at the same time preserve to each officer great freedom of action in promoting the interests of the special science of which he is in charge.

To increase the efficiency of the experiment station it is hereby resolved to define and extend its organization as follows:

1. The officers shall include the following:

- (a) Farm superintendent.

- (b) Director of station.
- (c) Heads of divisions.

2. The work of the station shall be conducted in the following divisions, to which additions may be made as necessary, and to which responsible heads shall be assigned :

- (a) General field and grain farming.
- (b) Stock and dairying.
- (c) Horticulture.
- (d) Entomology and botany.
- (e) Veterinary.
- (f) Chemistry.

3. Duties. The heads of divisions with the director shall constitute and be known as the "corps of experimentation" to consider and devise in all matters necessary to the ends for which this station is organized. It shall issue quarterly bulletins of work accomplished by divisions and make annual reports to the board of regents.

The director shall be the chairman and corresponding secretary of the corps, and shall attend to issuing all bulletins and reports required from the corps.

The superintendent of the farm shall, under such instructions as may be given him by the board of regents, conduct the farm in the interests of the experiment station and the school of agriculture, and cultivate so much of the farm as is not required for experimentation with a view to economy and profit.

He shall keep an accurate inventory of property, record of expenditures and receipts, the cost and profit of each farm crop, etc., and make annual report to the board on or before the first of December of each year.

The heads of divisions shall each keep a journal of experiments proposed, in progress and completed, which record shall be open to the inspection of the board or its authorized committees.

4. Subordinate assistants.

(a) Farm accountant, whose duty shall be to keep all financial accounts of the farm, experiment station and the school, and to attend to such financial interests as are required by the director, heads of divisions, and the principal of the school, which accountant shall be under the special direction of the board of regents.

- (b) Farm foreman.
- (c) Assistants and help in divisions.

The supervision of the affairs of the station is committed to the executive committee under such instructions as the board may from time to time impose.

BUILDINGS.

The most pressing need of the university in respect to buildings in which to prosecute its work will be met whenever the new science hall and museum shall be finished. This building was begun in 1887. It is built of stone and has a front of two hundred and forty-five feet. It will furnish lecture rooms and laboratories for the work in geology, mineralogy, botany, zoology and physiology. It will also furnish accommodations for the officers of the geological survey; and one wing containing 4,000 square feet on each floor will be devoted to the museum. Provision is also made in this building for work in metallurgy and mining whenever the regents shall see fit to establish a school of mines. This building is now enclosed, but will hardly be ready for use the present year. Meanwhile the pressure for rooms large enough to accommodate our increasing classes is great, and shows conclusively that the erection of science hall was not begun a moment too soon. But even when this building shall have been finished there will remain the need of a larger chemical and physical laboratory, of a library building, of a medical college building, of a law college building, and of an observatory. The future prosperity of the university will be very much affected by the promptness or delay attending the erection of these buildings. If provision is made so that they can be erected as fast as they are really needed, the progress of the university is assured. If, however, a wavering policy should be adopted by the state, and the promise of one year be unfulfilled the next year, the progress of the university will thereby be greatly hindered. I do not however anticipate any trouble in this respect. The university is doing good work and is an honor to the state. The people of the state have shown their good will to the university in many ways, and I do not doubt that they will, through their representatives, see that adequate provision is made for prosecuting successfully the work of all departments of the university.

THE DEPARTMENT OF LAW.

In the original charter of the university it was expressly provided that the colleges of law and of medicine should be established. The necessity for these departments has not, however, appeared to be imperative until the present year. During the last year many inquiries from students desiring to study law were addressed to the president of the university and it was apparent from the correspondence with these students that a law department in the university would meet a real want of the state. Accordingly in the spring of 1888 the regents voted to establish the department of law. Hon. William S. Pattee, of Northfield, a gentleman well known throughout the state, and respected both as an able lawyer and a man of the highest character, was at an early day elected professor of law and dean of the law faculty. Subsequently a number of the ablest lawyers in the state were invited to give courses of lectures in the law school, and all of them with a generous regard for the interests of legal education, consented to become lecturers on special branches of the law assigned to them, practically engaging to give their services to the university and thus to the state. The interest awakened in this department has been great and it will open its courses of study at the beginning of the year 1888-89 under the most encouraging circumstances. Temporary accommodations for the school have been provided in the main building of the university; but larger accommodations will be needed next year, when the number of students in attendance will be larger than in the law departments of some of the older eastern universities. The faculty of the law department as fully organized, is as follows:

Cyrus Northrop, LL.D., president.

Hon. Wm. S. Pattee, M. A., dean and professor of the law of contracts.

Hon. S. J. R. McMillan, lecturer on constitutional law.

Hon. Gordon E. Cole, lecturer on corporations.

Hon. Charles D. Kerr, lecturer on the law of partnership.

G. C. Ripley, B. A., lecturer on equity, jurisprudence and procedure.

Charles A. Willard, lecturer on the law of bailments.

Judge James O. Pierce, lecturer on the law of domestic relations.

Hon. Charles E. Flandreau, lecturer on the law of torts.

Hon. George B. Young, lecturer on the conflict of laws.

John B. Atwater, B. A., lecturer on the law of real property.

Hon. C. D. O'Brien, lecturer on criminal law and procedure.

George N. Baxter, lecturer on common law and code pleading.

Hon. W. D. Cornish, lecturer on life and fire insurance.

Judge John M. Shaw, lecturer on evidence.

Judge P. M. Babcock, lecturer on wills and administration.

Charles H. Boardman, M. D., professor of medical jurisprudence.

Charles W. Bunn, lecturer on suretyship and mortgages, practice in United States courts.

Sumner Ladd, lecturer on the law of taxation.

The regents have adopted the principle of charging fees for instruction in the professional schools. This is as it should be. I remarked in my first biennial report: "There is a limit beyond which free education should not go. In my judgment the line should be drawn at professional education." The regents have so decided. They do not, however, charge such fees as will pay all the expenses of the professional schools, much less erect the necessary buildings and provide the required apparatus. Instruction in law and medicine is necessary in the state; and the state can well afford to erect at once the modest and comparatively inexpensive building which will be required to accommodate the law school. I have the greatest confidence in the success of the law department, and I believe that its establishment will be fully justified not only by the number and character of its students from the first, but also by the general utility to the state of the work that will be done in elevating the character and standing of the coming members of the bar.

THE DEPARTMENT OF MEDICINE AND SURGERY.

The old college of medicine, which did not exist as a teaching school, and was therefore but a *simulacrum* of a college, was abolished by the regents in the spring of 1888, and a new department of medicine and surgery was organized. This department embraces the college of medicine and surgery, the college of homeopathic medicine and surgery, and the college of dentistry. Three existing medical colleges, in St. Paul and Minneapolis, voluntarily surrendered their charters in view of the organiza-

tion of the medical department of the university, and from the faculties of these colleges the faculty of the medical department of the university was largely, though not exclusively, selected. The course of instruction covers a period of three years, the instruction each year extending through six months. The department will open Oct. 1, 1888. The requisites for admission are much higher than have heretofore been required for admission to medical colleges in this state, and the result will undoubtedly be that a much smaller number of students will be in attendance the first few years than would be if the requirements were less and the standard of scholarship were lower. But what is lost in the number of students will, it is hoped, be made up in the greater excellence and attainments of those who do attend. But whether the number of students shall be small or great, the department will maintain the standard which it has set up, and will thus not only do something to elevate medical education here at home, but will also strengthen the hands of other institutions that are seeking to improve medical education in other parts of our country.

The faculties of the various medical colleges as elected by the board of regents are as follows:

The College of Medicine and Surgery.

Cyrus Northrop, LL.D., president.

A. F. Ritchie, M. D., professor of anatomy.

Richard O. Beard, M. D., professor of physiology.

C. J. Bell, M. A., professor of chemistry.

H. M. Bracken, M. D., L. R. C. S. E., professor of materia medica and therapeutics.

Albert E. Senkler, M. D., professor of theory and practice of medicine.

Charles H. Hunter, A. M., M. D., professor of clinical medicine and pathology.

Everton J. Abbott, A. B., M. D., professor of clinical medicine.

Charles A. Wheaton, M. D., professor of principles and practice of surgery.

Frederick A. Dunsmoor, M. D., professor of clinical and operative surgery.

Perry H. Millard, M. D., dean and professor of clinical surgery.

Parks Ritchie, M. D., professor of obstetrics.

Alex. J. Stone, LL.D., M. D., professor of diseases of women.

Amos W. Abbott, M. D., clinical professor of diseases of women.

John F. Fulton, Ph. D., M. D., professor of ophthalmology and otology.

Frank Allport, M. D., clinical professor of ophthalmology and otology.

C. Eugene Riggs, A. M., M. D., professor of diseases of the nervous system.

Charles H. Boardman, M. D., professor of medical jurisprudence.

Arthur B. Ancker, M. D., professor of hygiene.

James H. Dunn, M. D., professor of diseases of the genito-urinary organs.

Chas. L. Wells, A. M., M. D., professor of diseases of children.

James E. Moore, M. D., professor of orthopædic surgery.

M. P. Vanderhorck, M. D., professor of diseases of the skin.

W. S. Laton, M. D., professor of diseases of the throat and nose.

J. Clark Stewart, B. S., M. D., professor of histology and bacteriology.

J. W. Bell, M. D., professor of physical diagnosis and diseases of the chest.

E. C. Spencer, A. B., M. D., professor of surgical anatomy.

A. B. Cates, A. M., M. D., adjunct professor of obstetrics.

W. A. Jones, M. D., adjunct professor of diseases of the nervous system.

Burnside Foster, M. D., demonstrator of anatomy.

College of Homeopathic Medicine and Surgery.

Cyrus Northrop, LL.D., president.

William E. Leonard, A. B., M. D., professor of materia medica and therapeutics.

Henry Hutchinson, M. D., professor of theory and practice of medicine.

George E. Ricker, A. B., M. D., professor of clinical medicine.

Robert D. Matchan, M. D., professor of the principles and practice of surgery.

Warren S. Briggs, B. S., M. D., professor of clinical surgery.

Henry C. Leonard, B. S., M. D., professor of obstetrics.

Albert E. Higbee, M. D., professor of gynecology.

John F. Beaumont, M. D., professor of ophthalmology.

Henry W. Brazie, M. D., professor of paedology.

Salathiel M. Spaulding, M.D., professor of mental and nervous diseases.

Eugene L. Mann, A. B., M. D., professor of physical diagnosis and laryngology.

B. Harvey Ogden, A. M., M. D., professor of genito-urinary diseases.

Henry C. Aldrich, M. D., D. D. S., professor of dermatology.

D. A. Strickler, M. D., professor of otology.

College of Dentistry.

Cyrus Northrop, LL.D., president.

Charles M. Bailey, D. M. D., professor of prosthetic dentistry and materia medica.

Thomas E. Weeks, D. D. S., professor of operative and clinical dentistry.

Edward H. Angle, D. D. S., professor of histology and orthodontia.

L. D. Leonard, professor of pathology and therapeutics.

A. F. Ritchie, M. D., professor of anatomy.

Richard O. Beard, M. D., professor of physiology.

C. J. Bell, M. A., professor of chemistry.

The university has acquired by lease the right to use the medical college building in St. Paul, and the hospital college building in Minneapolis, for purposes of medical instruction for a period of five years. I do not think that the needs of the department can possibly be met by these buildings for five years to come. Provision should therefore be made at as early a day as possible for the erection of a building on the university campus, to accommodate all the colleges of the medical department and furnish ample lecture rooms and laboratories. The union of the different parts of the university should be not nominal but vital. And no more sure method of securing such vital union of the medical and literary and scientific departments can be found than to so place the departments as to enable the students of all to reap the benefit of the thorough scientific work done in the non-professional schools. a knowledge of which will be of the greatest value to the student of medicine.

THE PROFESSORSHIP OF MILITARY SCIENCE AND TACTICS.

The most strenuous efforts have been made for a number of years by the board of regents to secure from the war department the detail of an officer of the regular army to fill the chair of military science and tactics in the university. It is unnecessary to enumerate all the difficulties that have been met during these years of patient waiting for what we had so long and with apparent justice asked for. The end, however, has at last come, and Lieut. Edward F. Glenn, of the twenty-fifth infantry, has been detailed by the president as professor of military science and tactics in the university of Minnesota. He will report for duty at the university at once, and will engage actively in the instruction of the institution as well as in directing the exercises of the students in military drill. What regulations shall be established respecting the instruction in military science—whether it shall be a required or an elective study, whether a uniform shall be required for those who form the military company, what amount of time shall be devoted to drill—these and many kindred questions must ultimately be settled by the regents. I am not disposed to offer any suggestions in reference to them until I have conferred with Lieut. Glenn and have ascertained his views and wishes.

LADIES' HALL.

I have no doubt that the erection of a ladies' hall near the university, for the accommodation of ladies who desire to attend the university, would be of very great benefit, and would tend to increase the number of female students. Parents who reside outside of Minneapolis, and therefore can not personally care for their daughters in attendance at the university, are naturally anxious that their daughters should be under the care of some proper person, who will watch over their welfare. A ladies' hall under the care of an efficient lady superintendent, would meet the requirements of the case; and if the number of female students in the university is to remain relatively as large as at present, some such provision must be made. I commend the subject to the attention of the board.

THE LIBRARY.

I submit herewith the biennial report of the librarian of the university. While I am glad to note the increase in the number of volumes in the library and am especially pleased that very valuable additions have been made the past year, I yet feel that in this age of new books and of progress in almost every direction of study, the library of the university does not grow as rapidly as the best interests of the university require. I respectfully call the attention of the regents to some special needs pointed out by the librarian in his last report, and referred to in the report herewith submitted.

I close this, my second biennial report, with a feeling of deep gratitude for the blessings of the past two years—peace, progress, encouragement; and I look forward to the results of the coming year with hope and confidence.

CYRUS NORTHROP,

President.

APPENDIX "A."

At the fifteenth annual commencement, held June 12, 1887,
the following persons received degrees:

COLLEGE OF SCIENCE, LITERATURE AND ARTS.

Bachelors of Arts.

Henry Webb Brewster.....	Minneapolis
Joshua Ethan Gilman.....	Wasioja
Alfred Burt Gould.....	Wasioja
George Harry Hammond.....	Lake City
Millard Everett Hinshaw.....	Minneapolis
Ralph Murdoch McKenzie.....	Anoka
Joseph Henry Rosselot.....	Faribault

Bachelors of Science.

Franklin Hurley Bassett.....	Glyndon
Norton Murdock Cross.....	Minneapolis
Thomas Henry Crosswell.....	St. Paul
Adelbert Orsman Dinsmoor.....	Austin
Christopher Graham.....	Rochester
John Blackstock Hawley.....	Red Wing
Jesse Doddridge Hinshaw.....	Minneapolis
Lowell Andrew Lamoreaux.....	Minneapolis
Milton Sprague Lamoreaux.....	Minneapolis
Edwin Arthur McKinney.....	Crow River
William Patton Milliken.....	Lake City
Ingeval M. Olson.....	St. Peter

Bachelors of Literature.

George Edwin Burnell.....	Minneapolis
Elwood Allen Emery.....	Minneapolis
Everson Ryder McKinney.....	Crow River
Mary Isadore Smith.....	Minneapolis
Edward Winterer.....	Le Sueur

Master of Arts.

George Briggs Aiton, A. B., '81.....	Minneapolis
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THE COLLEGE OF MECHANIC ARTS.

Bachelor of Civil Engineering.

Fremont Crane, V. S., '86.....Mapleton

Bachelor of Mechanical Engineering.

George Cutler Andrews.....Minneapolis

COLLEGE OF AGRICULTURE.

Bachelor of Agriculture.

Jeremiah Ignatius Donohue, B. S., '84.....

COLLEGE OF MEDICINE.

Bachelors of Medicine.

Catherine E. Burns.....Hopkins

E. F. Conynghame.....Minneapolis

At the sixteenth annual commencement, held June 7, 1888,
the following persons received degrees:

COLLEGE OF SCIENCE, LITERATURE AND ARTS.

Bachelors of Arts.

Percival Ramsey Benson.....Anoka

Albert Ernest Fillmore.....Minneapolis

Albert Graber.....Minneapolis

Francis Newton Stacey.....Monticello

Helmus Wells Thompson.....Wells

William Dodsworth Willard.....Mankato

Bachelors of Science.

Bruno Bierbauer.....Mankato

Edna Cook.....Minneapolis

Albert Ames Finch.....Hastings

*Ulysses Sherman Grant.....Minneapolis

Walter Benjamin Holmes.....Faribault

Edwin Bird Johnson.....Marshall

Arthur Teall Mann.....Minneapolis

Sumner Warren Matteson, Jr.....Decorah, Iowa

Melville Emerson Reed.....Hastings

Warren Cogswell Rowell.....Winona

Dow Samuel Smith.....Minneapolis

John Lucius Torrens.....Oakland

*"Fellow of the University of Minnesota," for the year 1888-'89, by election of the University Fellowship Association.

Bachelors of Literature.

Alice Anna Adams.....	Minneapolis
Lucy Lloyd Baker	Minneapolis
Mary Lizzie Blanchard.....	Zumbrota
Ina Firkins	Minneapolis
Severt Germon.....	Medo
Florence Ellen Gideon.....	Excelsior
Fred. Ezra Hobbs..	Winona
Susan Hawley Olmstead.....	New Haven, Conn.
Sadie Belle Pillsbury.....	Minneapolis
Olivia Canby Porter.....	Minneapolis
Anna Shillock.....	Minneapolis
Johannes Jens Skördalsvold.....	Minneapolis
Charles Thompson.....	No. Yarmouth, Me.
Ima Caroline Winchell.....	Minneapolis

Master of Science.

John Henry Barr, B. M. E., 1883.....	Minneapolis
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Doctor of Philosophy.

Charles Burke Elliott, LL.B., 1881 (Iowa State University)	Minneapolis
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COLLEGE OF MECHANIC ARTS.

Bachelors of Civil Engineering.

Christian Anderson.....	Spring Valley
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Bachelors of Mechanical Engineering.

Eric Halderson Loe..	Minneapolis
John Morris.....	Bristol

Civil Engineer.

William Ricketson Hoag, B. C. E., 1884.....	Minneapolis
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APPENDIX "B."

The following tables exhibit the enrollment and classification of the students :

SUMMARY — 1886-87.

DEPARTMENT.	Class.	Gentlemen	Ladies.	Totals.
Graduate Students.....		16	6	22
College of Science, Literature and Arts.....	{ Senior.....	23	1	24
	{ Junior.....	21	12	33
College of Mechanic Arts.....	{ Senior.....	2	.....	2
	{ Junior.....	4	.....	4
College of Science, Literature and Arts, and Mechanic Arts.....	{ Sophomore.....	24	9	33
	{ Freshman.....	77	21	98
	{ Sub-Freshman.....	69	29	98
	{ Special.....	24	19	43
School of Practical Mechanics and Design.....	{ Artisans' A.....	6	.....	6
	{ Artisans' B.....	15	.....	15
	{ Artisans' C.....	13	.....	13
	{ Artisans' D.....	7	.....	7
School of Practical Agriculture.....		14	.....	14
Totals.....		315	97	412

SUMMARY — 1887-88.

DEPARTMENT.	Class.	Gentlemen.	Ladies.	Totals.
Graduate Students.....		17	4	21
College of Science, Literature and Arts.....	{ Senior.....	22	11	33
	{ Junior.....	20	12	32
College of Mechanic Arts.....	{ Senior.....	3	.....	3
	{ Junior.....	1	.....	1
College of Science, Literature and Arts, and Mechanic Arts.....	{ Sophomore.....	59	12	71
	{ Freshman.....	78	28	106
	{ Sub-Freshman.....	43	9	52
	{ Special.....	24	33	57
School of Practical Mechanics and Designs.....	{ Division A.....	15	.....	15
	{ Division B.....	4	.....	4
	{ Division C.....	36	.....	36
	{ Division D.....	28	30	58
School of Practical Agriculture.....		10	.....	10
Twice counted.....		360 3	139 5	499 8
Totals.....		357	134	491

APPENDIX "C."

The following statement shows the towns from which came candidates for admission to the university, who presented certificates of the state high school board—also the number of certificates presented from each town represented—and the subjects upon which the certificates were given.

In the year 1886–87: Alexandria, 2; Austin, 18; Browns Valley, 5; Dodge Centre, 3; Elk River, 12; Farmington, 4; Glencoe, 8; Hastings, 19; Henderson, 16; Howard, 9; Hutchinson, 34; Le Sueur, 10; Mankato, 10; Minneapolis Academy, 11; Ortonville, 9; Rochester, 3; Luverne, 21; Stillwater, 17; St. Peter, 33; Spring Valley, 33; Sauk Centre, 18; Willmar, 4.

In the year 1887–88: Albert Lea, 10; Austin, 11; Alexandria, 25; Cannon Falls, 10; Elk River, 20; Fergus Falls, 10; Glencoe, 10; Faribault, 16; Hutchinson, 16; Monticello, 23; Montevideo, 19; Mantorville, 2; New Ulm, 13; Redwood, 13; Rushford, 8; Rochester, 10; Stillwater, 9; Spring Valley, 36; Kasson, 5; Litchfield, 16; Wadena, 8; Sleepy Eye, 5; Owatonna, 15; Minneapolis Academy, 4.

The certificates presented were as follows:

In 1886–87: Arithmetic, 29; elementary algebra, 21; plane geometry, 22; geography, 2; United States history, 20; general history, 18; physiology, 23; English grammar, 20; Latin grammar, 18; Cæsar, 20; Cicero, 11; Greek grammar, 2; physical geography, 19; natural philosophy, 25; higher algebra, 9; solid geometry, 9; Anabasis, 3; Virgil, 10; chemistry, 11; botany, 7.

In the year 1887–88: English grammar, 22; English composition, 10; arithmetic, 30; elementary algebra, 31; plane geometry, 25; history of Greece and Rome, 16; United States history, 32; physiology, 29; Latin grammar, 15; Cæsar, 11; Cicero, 7; higher algebra, 8; solid geometry, 10; Virgil, 3; chemistry, 11; botany, 6; physical geography, 23; natural philosophy, 15; history of England, 8; Greek grammar, 1; Anabasis, 1.

TREASURER'S REPORT.

H. P. BROWNE, TREASURER,

*In Account with the University of Minnesota for the Fiscal Year
Ending July 31, 1887.*

CURRENT EXPENSES.

1886.	DR.	CR.
Aug. 1. By balance from last statement		\$33,833 42
Aug. 16. By cash from state treasurer on auditor's warrant.....		4,202 79
Aug. 30. By cash from state treasurer on auditor's warrant.....		1,895 41
Oct. 6. By cash from state treasurer on auditor's warrant.....		6,410 33
Oct. 12. By cash from high school board for services		146 74
Oct. 30. By cash from state treasurer on auditor's warrant.....		10,743 46
Dec. 2. By cash from state treasurer on auditor's warrant.....		7,420 80
Dec. 24. By cash from state treasurer on auditor's warrant.....		8,438 48
1887.		
Jan. 31. By cash from state treasurer on auditor's warrant.....		6,516 79
Mar. 9. By cash from state treasurer on auditor's warrant.....		8,397 94
April 7. By cash from state treasurer on auditor's warrant.....		6,594 90
May 10. By cash from state treasurer on auditor's warrant, part of April expenses.....		5,000 00
June 28. By cash from state treasurer on auditor's warrant, balance of April expenses.....		3,032 33
June 28. By cash from state treasurer on auditor's warrant, May and June expenses.....		15,446 94

1887.		DR.	CR.
July 28.	By paid high school boards for clerical services		\$400 00
July 28.	By deposit retained from artisans' training school		10 25
July 31.	By balance transferred from chemical laboratory account		245 24
July 31.	By balance transferred from student's fees account.....		2,905 00
July 31.	By balance transferred from water supply account.....		402 93
1887.			
July 31.	To balance transferred from account "campus"	\$141 72	
July 31.	To balance transferred from account college of agriculture.....	7,457 27	
July 31.	To balance transferred from account college of mechanic arts.....	803 60	
July 31.	To balance transferred from account employes.....	5,931 92	
July 31.	To balance transferred from account farmers institutes	1,336 05	
July 31.	To balance transferred from account heating and fuel.....	4,023 93	
July 31.	To balance transferred from account incidentals	3,253 80	
July 31.	To balance transferred from account library	1,256 52	
July 31.	To balance transferred from account laboratory of biology.....	573 93	
July 31.	To balance transferred from account laboratory of geology and mineralogy.....	91 20	
July 31.	To balance transferred from account physical laboratory	1,835 06	
July 31.	To balance transferred from account printing and advertising.....	1,039 91	
July 31.	To balance transferred from account repairs	384 09	
July 31.	To balance transferred from account salaries for instruction.....	49,025 00	
July 31.	To balance transferred from account stationery and postage	568 43	
July 31.	To balance transferred from account Prof. Pike's book	81 86	
July 31.	To balance carried to new account.....	44,289 46	
		<hr/>	<hr/>
		\$122,093 75	\$122,093 75
Aug. 1.	By Balance.....		<u>\$44,289 46</u>

APPARATUS FOR COLLEGE OF MECHANIC ARTS BUILDING.

1886.		No. of Voucher.	DR.	CR.
Aug. 14.	C., M. & St. P. Ry. Co., freight on machinery.....	6	\$34 06	
Aug. 16.	M. Electric Light & Cons. Co., light- ing fixtures, etc.....	7	176 30	
Aug. 28.	C., M. & St. P. Ry. Co., freight on machinery	11	140 86	
Sept. 18.	J. S. McClary, work on benches, etc...	45	91 50	
Sept. 18.	B. F. Sturtevant, two blast gates.....	46	4 13	
Sept. 20.	Robinson & Cary, Bailey drill.....	52	18 00	
Sept. 20.	I. Ross & Co., hasps for desks.....	53	7 00	
Sept. 20.	E. Gould & Eberhardt, shapers and at- tachments.....	54	251 00	
Sept. 20.	The Egan Co., Eureka planer.....	55	120 25	
Sept. 20.	P. Blaisdell & Co., one 6, 14 lathe.....	56	186 00	
Sept. 20.	Prentice Bros., two lathes, tools, etc...	57	182 25	
Sept. 20.	F. E. Reed, two engine lathes.....	58	318 00	
Sept. 20.	The Pratt & Whitney Co., engine lathes, etc.....	59	436 90	
Sept. 20.	Betts Machinery Co., Crescent flat bar gauges.....	60	63 08	
Sept. 20.	H. B. Smith Machinery Co., one jig saw.....	61	38 50	
Sept. 25.	Clough Bros., material	67	27 91	
Oct. 5.	C., M. & St. P. Ry. Co., freight on machinery.....	76	44 05	
Oct. 9.	E. E. Garvin & Co., No. 10 lathe.....	77	51 00	
Oct. 9.	H. J. Green, expressage on barometer.	78	2 75	
Oct. 9.	Springfield Emery Wheel Co., emery tool grinder.....	80	72 00	
Oct. 9.	H. B. Smith Machine Co, knife grinder	81	8 16	
Oct. 9.	New Haven Manufacturing Co., No. 4½ planer.....	82	336 80	
Oct. 9.	Hill, Clark & Co., grindstones and frames.....	84	37 00	
Oct. 9.	Robinson & Cary, power lathes.....	85	124 00	
Oct. 13.	Johnson & Hurd, drawing tables.....	87	275 00	
Oct. 20.	Hill, Clarke & Co, Flather lathe, etc..	91	409 00	
Oct. 20.	Riehle Bro's, testing machine, etc.....	92	118 75	
Oct. 29.	Brown & Sharp Manufacturing Co., milling machine, etc.....	107	559 80	
Nov. 6.	E. S. Grindall, drayage on machinery	117	75 00	
Nov. 11.	C. H. Ermentrout & Co., blackboards	121	275 00	
Dec. 6.	Trainor Bros., engine and boiler, fur- nace, etc.....	155	432 00	

1886.			No. of Voucher.	DR.	CR.
Dec. 6.	W. A. Pike, paid for setting up engine	158	\$25 00		
Dec. 7.	Prentice Bros., slide head and drill....	160	165 00		
Dec. 8.	J. H. Kerrick, wood lathes and drill press	165	405 00		
Dec. 8.	Pray Manufacturing Co., bracket stands, etc.....	168	70 84		
Dec. 11.	Lockwood; Upton & Co., material and labor	174	7 98		
Dec. 11.	Lockwood, Upton & Co, castings.....	175	17 25		
Dec. 13.	Lodge, Davis & Co., 16 inch lathe, etc.	176	215 00		
Dec. 14.	Miller Bros. & Fletcher, sundry articles furnished.....	178	270 09		
Dec. 23.	C., M. & St. P. Ry. Co., freight on ap- paratus.....	181	42 60		
Dec. 23.	Robinson & Cary, pulleys, shafts, etc.	182	432 07		
Dec. 23.	Buckeye Engine Co., Buckeye engine complete.....	185	1,400 00		
Dec. 23.	C. D. Hilferty, help putting in shafting	187	6 15		
Dec. 24.	Littlefield & Son, forges, etc., per con- tract.....	199	143 35		
1887.					
Jan. 7.	Ashcroft Manufacturing Co., labor in- dicator.....	214	63 25		
Jan. 8.	W. R. Hoag, paid for moving apparatus	216	17 37		
Jan. 15.	John Buckham, setting up machinery	218	68 75		
Jan. 15.	C. H. Dakin, setting up machinery....	219	54 00		
Jan. 20.	Robinson & Cary, sundry tools, etc....	222	106 20		
Jan. 21.	Smith & Wyman, four cases for appa- ratus	224	137 00		
Jan. 22.	S. J. McCarthy, tools	228	33 24		
Feb. 1.	E. T. Sykes & Co., sundry tools and supplies	232	3 08		
Feb. 9.	E. H. Loe, setting up machinery.....	238	18 75		
Feb. 10.	Geo. J. Barnes, Barnes' calorimeter...	240	35 00		
Feb. 10.	F. S. Martin & Co., sundry supplies...	246	2 17		
Feb. 16.	American Express Co., apparatus sent C. O. D.....	258	271 65		
Mar. 3.	E. S. Grindall, drayage on machinery.	269	12 00		
Mar. 17.	C. C. Dennis & Co., belts, pulleys, etc.	273	230 24		
Mar. 19.	S. J. McCarthy, sundry tools, etc.....	276	23 00		
Mar. 21.	Preston & Nott, belting, etc.....	280	127 77		
Mar. 21.	E. T. Sykes & Co., sundry supplies....	283	5 90		
Mar. 26.	Lockwood, Upton & Co., sundry tools, pulleys, etc.....	289	34 26		
Mar. 30.	Minneapolis Electric Light & Con- struction Co., electric lamps, brack- ets, etc.....	290	195 55		

1887.		No. of Voucher.	DR.	CR.
April 11.	Miller Bros. & Fletcher, tools and apparatus.....	299	\$150 98	
April 13.	Preston & Nott, belting.....	301	6 53	
April 25.	Ashcroft Manufacturing Co., pyrometer, gauge, etc.....	319	48 75	
April 26.	R. Peet & Co., castings.....	320	7 50	
April 29.	C. C. Dennis & Co., belting.....	322	9 20	
April 30.	Littlefield & Son, iron tanks, lamps, etc.....	326	19 10	
May 16.	Ashcroft Manufacturing Co., testing machine, etc.....	343	102 50	
May 21.	Fairbanks, Morse & Co., scales, etc.....	346	9 60	
May 28.	Chicago, Milwaukee & St. Paul Railway Co., freight on apparatus.....	351	46 00	
July 31.	By balance carried to account of mechanic arts building.....			\$9,955 72
			<u>\$9,955 72</u>	<u>\$9,955 72</u>

BUILDING ACCOUNT—COLLEGE OF MECHANIC ARTS.

1886.		No. of Voucher.	DR.	CR.
Aug. 10.	S. C. Cutter, payment on contract.....	4	\$5,000 00	
Sept. 13.	S. C. Cutter, payment on contract.....	41	4,000 00	
Sept. 22.	R. Lussier, labor on building.....	63	14 44	
Nov. 15.	Wheaton, Reynolds & Co., mouldings, etc.....	135	16 22	
Nov. 16.	Ball & Naylor, oil and waste.....	138	7 50	
Nov. 19.	Simmons & Jamieson, ten cars brick..	141	1,112 50	
Nov. 19.	St. P. M. & M. Ry. Co., freight or switching charges.....	142	25 00	
Dec. 4.	E. T. Sykes & Co., on contract, steam connections, etc.....	151	700 00	
Dec. 7.	Herbert Chalker, stone steps as per contract.....	163	250 00	
Dec. 24.	Walter Babcock, painting rooms in basement.....	189	65 00	
Dec. 24.	Walter Babcock, painting and finishing	191	62 03	
Dec. 24.	F. S. Martin & Co., material and labor	195	16 65	
Dec. 24.	F. S. Martin & Co., material and labor	196	17 17	
Dec. 24.	Littlefield & Son, ventpipe.....	200	17 50	
Dec. 30.	Merriman, Barrows & Co., lumber, etc. furnished.....	208	11 42	
1887.				
Jan. 21.	S. C. Cutter, payment on contract.....	225	3,000 00	
Feb. 1.	E. T. Sykes & Co., balance on contract, steam fitting, etc.....	231	371 12	

BIENNIAL REPORT

		No. of Voucher.	DR.	CR.
1887.				
Jan. 8.	Barnard Bros. & Cope, six dozen chairs	215	\$144 00	
Apr. 12.	N. W. Cement & C. P. Co., floor in forge shop.....	300	194 00	
Apr. 29.	S. C. Cutter, balance on contract.....	321	1,462 26	
July 31.	To balance from account apparatus mechanic arts.....		9,955 72	
July 31.	By balance carried to account build- ing fund.....			\$26,442 53
			<u>\$26,442 53</u>	<u>\$26,442 53</u>

SCIENCE HALL BUILDING.

		No. of Voucher.	DR.	CR.
1887.				
July 20.	Minneapolis Tribune Co., advertising for bids.....	398	\$6 00	
July 20.	St. Paul Dispatch, advertising for bids	399	2 00	
July 20.	Pioneer Press Co., advertising for bids	400	15 00	
July 23.	Trainor Bros., payment on foundation	405	1,500 00	
July 31.	By balance carried to account building fund.....			\$1,523 00
			<u>\$1,523 00</u>	<u>\$1,523 00</u>

SEWERAGE.

		No. of Voucher.	DR.	CR.
1886.				
Sept. 14.	Youngren & Gleason, payment on con- tract.....	42	\$1,000 00	
Oct. 5.	Youngren & Gleason, payment on con- tract.....	75	1,200 00	
Oct. 27.	Minn. Tribune Co, advertising for bids	95	27 00	
Nov. 13.	Youngren & Gleason, payment on con- tract.....	126	2,562 19	
1887.				
May 5.	John Gleason & Co., balance due on contract.....	334	356 22	
July 31.	By balance carried to account building fund.....			\$5,145 41
			<u>\$5,145 41</u>	<u>\$5,145 41</u>

BUILDING FUND ACCOUNT.

1886.		DR.	CR.
Aug. 1.	By balance from last statement.....		\$19,872 10
Oct. 6.	By cash from state treasurer on auditor's warrant.....		10,000 00
Dec. 17.	By cash from state treasurer on auditor's warrant.....		8,000 00
1887.			
May 17.	By cash from state treasurer on auditor's warrant.....		18,000 00
July 31.	By balance from account heating apparatus, more than this amount having been used from building account.....		1,674 80
July 31.	To balance brought from sewerage account...	\$5,145 41	
July 31.	To balance brought from science hall account	1,523 00	
July 31.	To balance brought from college of mechanic arts building.....	26,442 53	
July 31.	To balance to new account.....	24,435 96	
		<u>\$57,546 90</u>	<u>\$57,546 90</u>
Aug. 1.	By balance.....		\$24,435 96

HEATING APPARATUS.

1886.		DR.	CR.
Aug. 1.	By balance from last statement.....		\$1,674 80
1887.			
July 31.	To balance to account building fund.....	\$1,674 80	
		<u>\$1,674 80</u>	<u>\$1,674 80</u>

CHEMICAL LABORATORY.

1886.		No. of Voucher.	DR.	CR.
Sept. 8.	James A. Dodge, sundry bills paid by him.....	29	\$257 74	
Sept. 18.	Bullock & Crenshaw, supplies for department.....	47	5 69	
Sept. 18.	Noyes Bros. & Cutler, supplies for department.....	50	40 02	
Oct. 9.	E. B. Benjamin, supplies for department.....	83	288 39	
Oct. 27.	J. A. Dodge, freight paid on merchandise.....	98	13 92	
Dec. 24.	Geo. Huhn & Co., two barrels gasoline, etc.....	192	26 33	

		No. of Voucher.	DR.	CR.
1887.				
Mar. 22.	Noyes Bros. & Cutler, supplies for department	286	\$9 51	
April 15.	Geo. Huhn & Co., one barrel gasoline..	310	14 18	
June 27.	Geo. Huhn & Co., supplies for department.....	375	1 65	
1886.				
Oct. 5.	By cash from J. A. Dodge, 20 per cent of fees for extra work.....			\$278 00
1887.				
Jan. 3.	By cash from J. A. Dodge, received as students' fees.....			162 00
Mar. 1.	By cash from J. A. Dodge, received as students' fees.....			100 00
April 4.	By cash from J. A. Dodge, 20 per cent of fees for extra work.....			80 00
June 1.	By cash from J. A. Dodge, as students' fees in that department.....			82 67
June 27.	By cash from J. A. Dodge, 20 per cent of fees for extra work.....			200 00
July 31.	To balance carried to current expense account.....		245 24	
			<u>\$902 67</u>	<u>\$902 67</u>

CAMPUS.

		No. of Voucher.	DR.	CR.
1886.				
April 6.	Chas. Thompson, 246 hours labor at 15 cents	25	\$36 90	
April 6.	Chas. Thompson, 270 hours labor at 15 cents	26	40 50	
Nov. 5.	C. W. Jackson, labor on campus.....	116	7 42	
Nov. 13.	C. W. Jackson, labor on campus.....	130	7 20	
Dec. 23.	C. W. Jackson, labor on campus.....	186	7 20	
1887.				
May 31.	R. B. Dickey, <i>et al.</i> , trees, etc.....	357	42 50	
July 31.	By balance carried to current expense account.....			\$141 72
			<u>\$141 72</u>	<u>\$141 72</u>

COLLEGE OF AGRICULTURE, OR EXPERIMENTAL FARM.

		No. of Voucher.	DR.	CR.
1886.				
Sept. 11.	Edward D. Porter, farm pay roll for July.....	39	\$797 04	
Sept. 18.	A. W. Scott, repairs, etc., at farm.....	49	79 55	
Oct. 18.	E. D. Porter, farm pay roll for August	88	619 28	

1886.		No. of Voucher.	DR.	CR.
Oct. 20.	Thompson Harness Co., harness, repairs, etc.....	89	\$58 50	
Oct. 20.	E. D. Porter, farm pay roll for September.....	93	595 01	
Oct. 20.	W. H. Walmsley & Co., merchandise..	94	11 35	
Nov. 13.	Pioneer Press Co, engravings, etc., for catalogues.....	123	91 00	
Nov. 13.	Fairbanks, Morse & Co., repairs. etc., for wind mills.....	124	54 93	
Nov. 15.	Johnson, Smith & Harrison, printing for this department.....	131	18 50 .	
Nov. 15.	E. D. Porter, farm pay roll for October	132	531 16	
Nov. 15.	Frisk & Howard, repairing machinery, etc.....	133	33 00	
Nov. 15.	Driscoll & Forsyth, repairing machinery, etc.....	134	20 55	
Nov. 15.	Geo. Huhn & Co., merchandise.....	136	41 10	
Nov. 16.	Weiskopf Bros., paints, oils, etc.....	137	26 48	
Nov. 18.	Littlefield & Son, material and labor..	139	6 08	
Dec. 4.	C. C. Lyford, V. S., visits and medicine	150	40 09	
Dec. 8.	E. D. Porter, farm pay roll for November.....	166	480 00	
1887.				
Jan. 10.	E. D. Porter, farm pay roll for December	217	350 00	
Feb. 9.	Miller Bros. & Fletcher, sundry hardware bills.....	239	42 59	
Feb. 10.	E. D. Porter, sundry expenses.....	248	244 60	
Feb. 11.	Rugg, Fuller & Co., supplies.....	251	18 19	
Feb. 15.	Minnesota Linseed Oil Co., oil meal for stock.....	256	29 90	
Feb. 16.	E. D. Porter, farm pay roll for January	259	415 65	
Mar. 21.	E. D. Porter, farm pay roll for February.....	279	340 00	
Mar. 31.	E. D. Porter, postage for mailing reports	291	100 00	
Apr. 13.	D. L. Wellman, expenses on advisory committee	303	18 35	
Apr. 13.	D. D. Bunn, expenses on advisory committee.....	304	15 00	
Apr. 13.	G. W. Sprague, expenses on advisory committee	305	16 00	
Apr. 13.	L. H. Stanton, expenses on advisory committee	306	14 00	
Apr. 16.	E. D. Porter, farm pay roll for March..	313	321 00	
May 14.	E. D. Porter, farm pay roll for April..	341	399 31	
June 28.	Janney, Semple & Co., merchandise...	377	26 07	

1887.		No. of Voucher.	DR.	CR.
June 28.	Janney, Semple & Co., merchandise...	378	\$47 20	
July 14.	E. D. Porter, farm pay roll for May...	393	776 35	
July 21.	E. D. Porter, farm pay roll for June...	401	779 44	
July 31.	By balance carried to current expense account.....			\$7,457 27
			<u>\$7,457 27</u>	<u>\$7,457 27</u>

COLLEGE OF MECHANIC ARTS.

1886		No. of Voucher.	DR.	CR.
Aug. 19.	W. R. Hoag, paid for blanks, etc.....	8	\$2 45	
Sept. 8.	Cyrus Northrop, engraving and ex- pressage	33	17 47	
Nov. 13.	W. R. Hoag, petty expenses	129	5 54	
Nov. 30.	W. A. Pike, petty expenses.....	145	9 35	
Dec. 3.	Pioneer Press Co., card for artisan's training school.....	149	9 60	
Dec. 6.	Trainor Bros., removing furniture.....	156	2 80	
Dec. 6.	C. P. Stevens & Son, desks, etc.....	157	82 00	
Dec. 7.	Mrs. Miller, cleaning windows, etc....	150	9 00	
Dec. 7.	Journal Printing Co., advertising.....	164	8 00	
Dec. 11.	Minneapolis Tribune Co., advertising..	173	15 00	
Dec. 14.	H. J. Saunders, window shades.....	177	76 19	
Dec. 14.	John T. Lucas, tin cans, etc.....	179	3 50	
Dec. 15.	J. H. Barr, expenses of trip east to look for machinery, etc.....	180	180 80	
Dec. 23.	O. K. Wilson, labor.....	183	3 79	
Dec. 23.	O. K. Wilson, labor, cleaning, etc.....	184	5 25	
Dec. 24.	Minneapolis Electric Construction Co., putting in speaking tube.....	188	15 00	
Dec. 24.	Johnson, Smith & Harrison, printing pamphlets.....	198	25 00	
Dec. 29.	Star Lubricating Oil Works, oil.....	207	6 10	
1887.				
Jan. 22.	Zesbaugh & Burtliff, moldings, etc....	227	11 75	
Feb. 10.	Pray Manufacturing Co., supplies.....	244	1 00	
Feb. 10.	F. S. Martin & Co., material and labor..	245	24 34	
Feb. 14.	W. A. Pike, petty expenses paid.....	253	18 03	
Feb. 16.	Clough Bros., lumber.....	260	6 41	
Feb. 16.	Clough Bros., lumber.....	261	15 53	
Feb. 16.	Gray & Donaldson, hardware.....	262	1 25	
Feb. 19.	C. D. Whitall & Co., one dozen waste baskets	263	4 50	
Mar. 19.	E. B. Johnson, printing.....	275	2 00	
Mar. 19.	Chas. Anderson, clerical work.....	277	10 00	

1887.		No. of Voucher.	DR.	CR.
Mar. 21.	Star Lubricating Works, oil, grease, etc.	281	\$19 80	
Mar. 21.	E. T. Sykes & Co., supplies.....	282	79	
Mar. 22.	Ball & Naylor, supplies.....	285	1 90	
April 2.	C. D. Whitall & Co., sundry supplies..	294	1 60	
April 7.	E. C. Cauvet, sundry supplies.....	298	3 50	
April 15.	I. Ross & Co., sundry supplies.....	307	3 00	
April 16.	W. R. Hoag, petty expenses paid.....	315	9 22	
April 30.	O. K. Wilson, cleaning forge shop.....	324	1 50	
May 4.	J. P. Gilmore, sundry supplies.....	333	3 55	
May 5.	Trainor Bros., mason work and ma- terial.....	335	18 00	
May 7.	Clough Bros., lumber.....	336	25 24	
May 16.	T. J. Cornforth, supplies.....	344	6 75	
May 17.	I. Ross & Co, surveying pins.....	345	3 00	
May 30.	Harrison & Smith, envelopes, etc.....	356	10 75	
May 31.	W. A. Pike, sundry petty expenses paid	358	13 64	
May 31.	W. A. Pike, sundry petty expenses paid	359	13 50	
May 31.	Miller Bros. & Fletcher, supplies.....	360	13 60	
May 31.	Miller Bros. & Fletcher, supplies.....	361	9 03	
May 31.	Miller Bros. & Fletcher, supplies.....	362	23 56	
June 28.	Janney, Semple & Co., supplies.....	376	12 29	
July 23.	W. H. Yattaw, extra lumber in me- chanics' building.....	404	16 80	
July 28.	Cyrus Northrop, paid for cleaning building, etc.....	415	20 93	
July 31.	By balance carried to account current expense.....			\$803 60
			<u>\$803 60</u>	<u>\$803 60</u>

FARMER'S INSTITUTE.

1886.		No. of Voucher	DR.	CR.
Aug. 3.	O. C. Gregg, salary and expenses in July.....	1	111 96	
Aug. 28.	E. D. Porter, sundry expenses paid...	10	202 25	
Sept. 3.	O. C. Gregg, salary and expenses in August.....	20	108 33	
Nov. 9.	E. D. Porter, sundry expenses paid....	119	205 19	
1887.				
April 16.	O. C. Gregg, salary and expenses in work.....	316	708 32	
July 31.	By balance carried to account current expense.....			\$1,336 05
			<u>\$1,336 05</u>	<u>\$1,336 05</u>

EMPLOYES.

1886.		No. of Voucher.	DR.	CR.
Aug. 31.	Pay roll for August.....	15	\$251 66	
Sept. 7.	D. L. Kiehle, salary as secretary to September 1.....	38	75 00	
Sept. 30.	Pay roll for September.....	74	351 66	
Oct. 30.	Pay roll for October.....	113	391 66	
Nov. 4.	W. Wegner, salary as engineer to Nov- ember 1.....	115	72 50	
Nov. 30.	Pay roll for November.....	146	416 66	
Dec. 3.	D. L. Kiehle, salary as secretary to De- cember 1, auditing treasurer's ac- count \$10.....	148	85 00	
Dec. 24.	Pay roll for December.....	202	416 66	
1887.				
Jan. 19.	W. W. Dakin, janitor work.....	220	12 00	
Jan. 31.	Pay roll for January.....	230	431 66	
Feb. 28.	Pay roll for February	266	431 66	
Mar. 5.	D. L. Kiehle, salary as secretary to March 1.....	271	75 00	
Mar. 31.	Pay roll for March.....	293	431 66	
Apr. 30.	Pay roll for April.....	328	431 66	
May 14.	W. Wegner, one-half month salary as fireman.....	342	22 50	
May 23.	W. W. Folwell, salary as librarian.....	347	500 00	
May 31.	Pay roll for May.....	363	386 66	
June 2.	D. L. Kiehle, salary as secretary to June 1.....	366	75 00	
June 30.	H. P. Browne, salary as treasurer for year.....	383	400 00	
June 30.	Pay roll for June	388	371 66	
July 30.	Pay roll for July	417	301 66	
July 31.	By balance carried to account current expense.....			\$5,931 92
			<u>\$5,931 92</u>	<u>\$5,931 92</u>

HEATING AND FUEL.

1886.		No. of Voucher.	DR.	CR.
Oct. 28.	George C. Moore, maple and basswood	105	169 88	
Nov. 13.	D. Fitzgerald, hauling wood.....	122	2 70	
Dec. 9.	George C. Moore, 165½ cords basswood	169	537 88	
Dec. 24.	V. Truesdell, coal and coke.....	194	756 14	
Dec. 31.	George C. Moore, 175½ cords basswood	210	570 38	

1887.		No. of Voucher.	DR.	CR.
Feb. 5.	George C. Moore, 152 $\frac{1}{4}$ cords basswood	231	\$494 81	
Mar. 11.	George C. Moore, 133 $\frac{1}{4}$ cords basswood	272	433 06	
Mar. 21.	St. P., M. & M. Ry. Co., freight on wood.....	284	29 52	
April 6.	D. Fitzgerald, hauling wood.....	295	12 00	
April 18.	Geo. C. Moore, 98 $\frac{3}{4}$ cords basswood....	317	320 94	
April 30.	V. Truesdell, coal.....	323	371 76	
May 3.	V. Truesdell, coal and oak slabs.....	331	203 73	
May 3.	V. Truesdell, coal.....	332	92 25	
May 7.	Lakewood Cemetery Association, 20 $\frac{1}{4}$ cords wood.....	337	60 75	
June 30.	Stacy, Oakley & Co., 34 $\frac{1}{2}$ cords wood..	386	68 88	
June 28.	By W. W. Folwell, for wood sold to him			\$100 75
July 31.	By balance carried to account current expense			4,023 93
			<hr/> \$4,124 68 <hr/>	<hr/> \$4,124 68 <hr/>

INCIDENTALS.

1886.		No. of Voucher.	DR.	CR.
Aug. 4.	W. H. Yattaw, for labor, extra.....	2	\$7 00	
Aug. 4.	W. H. Yattaw, cleaning main building	3	50 00	
Aug. 24.	B. C. Riblet, making estimates on Mis- sissippi and Minnesota rivers.	9	24 70	
Sept. 1.	E. W. Pyle, merchandise.....	16	9 50	
Sept. 1.	Gray & Donaldson, merchandise.....	17	22 22	
Sept. 4.	Minneapolis Sash and Door Co., ma- terials.....	23	1 64	
Sept. 7.	Ball & Naylor, steam gauges.....	27	6 00	
Sept. 8.	Cyrus Northrop, sundry bills paid by him.....	30	46 74	
Sept. 8.	Cyrus Northrop, sundry bills paid by him.....	31	502 95	
Sept. 13.	James W. Day, ice bill to June 8.....	40	3 75	
Oct. 28.	H. R. Robinson, work and material in gymnasium	99	4 50	
Oct. 30.	Jas. W. Queen & Co., models for stere- ometry.....	109	37 65	
Oct. 30.	R. B. Lees, repairing desks, etc.....	111	8 50	
Nov. 6.	Mrs. Miller, cleaning house.....	118	6 00	
Nov. 29.	A. E. Kindervater, instruction in mili- tary exercises	144	150 00	
Dec. 1.	A. J. Warren, carpenter work	147	88 68	
Dec. 6.	Eastman, Bovey & Co., lumber, etc....	152	178 87	

1886.		No. of Voucher.	DR.	CR.
Dec. 6.	Gilfillan, Bidden & Willard, clerk's fees, etc. in N. P. suit.....	154	\$98 12	
Dec. 9.	Erie Telephone Co., bill for month of December.....	170	14 00	
Dec. 24.	Ball & Naylor, flue wire brush.....	197	2 25	
Dec. 28.	Wagner & Hochstatter, writing table..	204	5 50	
Dec. 28.	Wagner & Hochstatter, writing table..	205	5 50	
Dec. 28.	Gray & Donaldson, material furnished.	206	20 88	
Dec. 30.	Folds & Griffiths, carpeting, etc.....	209	26 28	
1887.				
Jan. 4.	Franklin Bazaar, nine dusters.....	211	5 00	
Jan. 5.	Eastman, Bovey & Co, lumber, etc.....	212	15 63	
Jan. 7.	A. J. Schumacher, labor on surveying.	213	3 75	
Jan. 21.	James W. Day, ice to December 10....	223	7 48	
Jan. 21.	Erie Telephone Co., bills for October, November and January.....	226	42 00	
Feb. 4.	E. Bufton, plumbing, etc., in main building.....	233	700 00	
Feb. 8.	John Rainville, manual labor.....	235	14 37	
Feb. 9.	John Healey, carpenter work.....	236	14 12	
Feb. 9.	Edward Bug, carpenter work.....	237	12 00	
Feb. 11.	Sullivan & Farnham, basket grate.....	249	2 25	
Feb. 11.	Minneapolis Sash & Door Co., blinds and molding.....	250	11 45	
Feb. 12.	Eastman, Bovey & Co, flooring, ceiling, etc.....	252	23 91	
Feb. 14.	Folds & Griffiths, rugs and shades.....	254	9 10	
Feb. 19.	C. D. Whitall & Co., supplies.....	264	48 00	
April 16.	J. S. Pillsbury, paid for dinners of board of regents.....	314	43 30	
April 16.	C. D. Whitall & Co., books for history department.....	314	46 85	
April 23.	Knute Nelson, expenses in attending meeting of board of regents.....	318	8 10	
May 2.	Louis Drake, thirty diplomas.....	329	37 50	
May 2.	Erie Telephone Co., bill for four months.....	330	56 65	
May 10.	F. W. Downs, work on ball grounds..	338	25 00	
June 30.	Erie Telephone Co., bill for two months.....	387	28 00	
July 1.	James W. Day, bill for ice to June 1..	389	6 70	
July 11.	C. D. Whitall & Co., books for history department.....	391	21 94	
July 18.	M. Lara & Co., matting.....	394	16 00	
July 23.	W. H. Yattaw, cleaning main building.....	403	50 00	
July 28.	Cyrus Northrop, sundry bills paid per statement.....	411	683 47	

1887.		No. of Voucher.	DR.	CR.
July 31.	By balance carried to account current expenses			\$3,253 80
			<u>\$3,253 80</u>	<u>\$3,253 80</u>

LIBRARY.

1886.		No. of Voucher.	DR.	CR.
Sept. 8.	Cyrus Northrop, sundry bills paid by him	32	\$332 79	
Sept. 18.	Gustav E. Stechert, books.....	48	55 29	
Sept. 20.	C. D. Whitall & Co., books.....	51	22 53	
Sept. 24.	W. W. Folwell, paid for opening library in vacation.....	66	8 00	
Oct. 27.	G. E. Stechert, books.....	96	22 55	
Oct. 27.	W. H. Lowdurmik & Co., books.....	97	98 10	
Oct. 27.	O. S. Breda, books.....	101	25 00	
Oct. 29.	Mrs. Mary Brown, work in library.....	108	15 40	
Oct. 30.	W. W. Folwell, freight, etc., paid on books.....	112	6 24	
Nov. 19.	C. D. Whitall & Co., books.....	140	40 75	
1887.				
Feb. 10.	Gustav E. Stechert, books.....	243	95 73	
Mar. 5.	H. F. Nachtrieb, books.....	270	48 00	
Mar. 24.	Gustav E. Stechert, books	288	69 28	
Mar. 28.	Mrs. Mary Bowen, work in library.....	287	12 75	
April 6.	J. B. Gilfillan, books.....	296	3 00	
April 30.	J. H. Rosselot, work in library.....	325	14 55	
July 20.	Gardener's Monthly, subscription.....	397	11 20	
July 28.	Cyrus Northrop, sundry bills for books, etc., paid.....	413	381 60	
1886.				
Nov. 1.	By W. W. Folwell, for books sold from library.....			\$6 24
1887.				
July 11.	By balance carried to current expense..			1,256 52
			<u>\$1,262 76</u>	<u>\$1,262 76</u>

LABORATORY OF BIOLOGY.

1886.		No. of Voucher.	DR.	CR.
Oct. 30.	W. H. Walmsley & Co., merchandise furnished	110	\$8 70	
Nov. 13.	James W. Queen & Co., skeletons, etc.	125	495 00	
Nov. 13.	C. W. Hall, sundry small expenses.....	127	10 92	
Nov. 13.	H. F. Nachtrieb, sundry small expenses	128	11 01	

1887.		No. of Voucher.	DR.	CR.
April 15.	McCarthy & Courtney, labor and materials.....	308	\$14 57	
April 15.	H. H. Molloy, scalpels used in department.....	309	19 50	
April 16.	C. D. Haven & Co., lumber.....	312	4 02	
June 1.	H. F. Nachtrieb, petty expenses paid..	364	10 21	
July 31.	By balance carried to current expense.			\$573 93
			<u>\$573 93</u>	<u>\$573 93</u>

LABORATORY OF GEOLOGY AND MINERALOGY.

1886.		No. of Voucher.	DR.	CR.
Aug. 12.	Eimer & Ament, material.....	5	\$5 40	
Sept. 23.	C. W. Hall, sundry bills paid.....	65	21 78	
Dec. 6.	Eastman, Bovey & Co., lumber, etc....	153	7 87	
1887.				
May 30.	J. P. Goode, carpenter work.....	353	10 23	
June 2.	A. C. Bausman, printing blanks.....	365	12 00	
June 25.	F. Heywood & Co., museum trays.....	374	5 00	
July 12.	C. W. Hall, petty expenses paid.....	392	6 77	
July 23.	Eastman, Bovey & Co., lumber, etc....	406	22 15	
July 31.	By balance carried to current expense			\$91 20
			<u>\$91 20</u>	<u>\$91 20</u>

PHYSICAL LABORATORY.

1886.		No. of Voucher.	DR.	CR.
Sept. 17.	F. S. Jones, postage, freight, etc.....	44	\$3 12	
Nov. 29.	F. S. Jones, postage, freight, etc.....	143	3 75	
Dec. 7.	James W. Queen & Co., apparatus and materials	161	112 41	
Dec. 7.	E. S. Ritchie & Sons, apparatus and materials	162	108 93	
Dec. 8.	C. H. Ermentrout & Co., blackboards, etc.....	167	7 82	
Dec. 10.	Miller Bros. & Fletcher, material furnished.....	171	1 02	
Dec. 10.	Church & Graves, tables and screen frames.....	172	102 00	
Dec. 24.	Walter Babcock, repairing cases.....	190	3 82	
Dec. 24.	F. S. Jones, petty expenses.....	201	5 85	

1887.		No. of Voucher.	DR.	CR.
Feb. 10.	Jas. W. Queen & Co., apparatus and materials	241	\$125 17	
Feb. 10.	E. S. Ritchie & Sons, apparatus and materials.....	242	269 69	
Feb. 15.	F. S. Jones, freight, cartage, etc., paid	257	12 40	
May 30.	J. W. Queen & Co., apparatus and materials	354	272 97	
May 30.	E. S. Ritchie & Sons, apparatus and materials	355	116 71	
June 20.	Fred S. Jones, petty expenses.....	370	19 00	
July 19.	Edison United Mf'g Co., electric light plant.....	395	670 40	
July 31.	By balance carried to account current expense.....			\$1,835 06
			<u>\$1,835 06</u>	<u>\$1,835 06</u>

PRINTING AND ADVERTISING.

1886.		No. of Voucher.	DR.	CR.
Aug. 31.	Ariel Association, advertising.....	12	\$75 00	
Sept. 3.	Chr. Brandt & Co., advertising.....	28	20 00	
Sept. 8.	Cyrus Northrop, for sundry bills paid by him.....	34	77 45	
Oct. 20.	Volkenbladet Publishing Co., advertising.....	90	20 00	
Dec. 24.	Minneapolis Tribune Co., advertising.	193	6 00	
1887.				
Feb. 10.	E. B. Johnson, printing slips.....	247	9 00	
April 13.	Harrison & Smith, printing.....	302	60 00	
April 30.	E. B. Johnson, printing.....	327	2 00	
May 3.	Frank S. Lewis, advertising.....	340	20 00	
May 28.	E. B. Johnson, printing.....	350	5 25	
June 21.	Tribune Job Printing Co., printing calendars.....	372	366 00	
July 1.	Sanford Niles, advertising	390	15 00	
July 19.	Harrison & Smith, diplomas.....	396	32 75	
July 27.	Tribune Job Printing Co., printing pamphlets	407	61 40	
July 28.	W. T. Cole, sundry printing.....	409	27 75	
July 28.	E. B. Johnson, sundry printing.....	410	198 35	
July 28.	Cyrus Northrop, sundry bills paid by him	412	43 96	
July 31.	By balance carried to account current expense.....			\$1,039 91
			<u>\$1,039 91</u>	<u>\$1,039 91</u>

BIENNIAL REPORT

REPAIRS.

1886.		No. of Voucher.	DR.	CR.
Sept. 1.	Boyson & Rasmussen, plastering and kalsomining.....	18	\$27 45	
Sept. 4.	W. W. Sly Paint Mnfg Co., fifty gal- lons oil.....	22	25 00	
Sept. 4.	Miller Bros. & Fletcher, hardware.....	24	4 25	
Sept. 14.	Eastman, Bovey & Co., lumber.....	43	6 50	
Sept. 20.	M. Lara & Co., matting, etc., labor....	62	50 75	
Oct. 28.	Gray & Donaldson, glass, putty, etc...	106	11 99	
1887.				
Jan. 20.	Boyson & Rasmussen, papering, paint- ing, etc.....	221	26 75	
Feb. 15.	E. L. Ames & Co., papering, painting etc.....	255	16 30	
Mar. 19.	John Rainville, labor, repairing.....	278	5 00	
April 7.	Eastman, Bovey & Co., lumber for re- pairs	297	17 05	
June 30.	Gray & Donaldson, material and labor	382	169 97	
July 22.	Gray & Donaldson, material and labor	402	22 88	
July 31.	By balance carried to account current expense.....			\$384 09
			<u>\$384 09</u>	<u>\$384 09</u>

SALARIES FOR INSTRUCTION.

1886.		No. of Voucher.	DR.	CR.
Aug. 31.	W. R. Hoag, additional salary for July and August	14	\$70 00	
Aug. 10.	Pay roll for August.....	15	405 00	
Sept. 30.	Pay roll for September....	74	4,795 00	
Oct. 30.	Pay roll for October.....	113	4,795 00	
Nov. 30.	Pay roll for November	146	4,795 00	
Dec. 24.	Pay roll for December.....	202	4,795 00	
1887.				
Jan. 29.	E. D. Mayo, services in drawing, etc...	229	100 00	
Jan. 31.	Pay roll for January	230	4,795 00	
Feb. 28.	Pay roll for February.....	266	4,795 00	
Mar. 31.	Pay roll for March.....	293	4,795 00	
Mar. 31.	C. G. McMillan, services as botanist...	292	100 00	
April 30.	Pay roll for April.....	328	4,895 00	
May 31.	Pay roll for May.....	363	4,895 00	
June 30.	Pay roll for June.....	388	4,795 00	
July 30.	Pay roll for July	417	200 00	
July 31.	By balance carried to account current expense.....			\$49,025 00
			<u>\$49,025 00</u>	<u>\$49,025 00</u>

STATIONERY AND POSTAGE.

		No. of Voucher.	DR.	CR.
1886.				
Aug. 31.	W. R. Hoag, paid for postage.....	13	\$6 70	
Sept. 8.	Cyrus Northrop, paid sundry bills for postage, etc.....,.....	35	213 65	
1887.				
July 28.	Cyrus Northrop, sundry bills paid by him.....	416	348 08	
July 31.	By balance carried to account current expense.....			\$568 43
			<u>\$568 43</u>	<u>\$568 43</u>

STUDENTS' FEES.

		No. of Voucher.	DR.	CR.
1886.				
Sept. 8.	By Cyrus Northrop, fees paid in for years 1885 and 1886.....			\$1,305 00
1887.				
July 28.	By Cyrus Northrop, fees paid in for years 1886 and 1887.....			1,600 00
July 31.	To balance carried to account current expense.....		\$2,905 00	
			<u>\$2,905 00</u>	<u>\$2,905 00</u>

WATER SUPPLY ACCOUNT.

		No. of Voucher.	DR.	CR.
1886.				
Aug. 1.	By balance from last statement.....			\$402 93
1887.				
July 31.	To balance carried to account current expense as it will not be used from this account.....		\$402 93	
			<u>\$402 93</u>	<u>\$402 93</u>

PROF. PIKE'S BOOK.

		No. of Voucher.	DR.	CR.
1886.				
Aug. 1.	To balance from last statement.....		\$81 86	
1887.				
July 31.	By balance carried to account current expense.....			\$81 86
			<u>\$81 86</u>	<u>\$81 86</u>

GEOLOGICAL SURVEY.

1886.		No. of Voucher.	DR.	CR.
Aug. 1.	To balance from last statement.....		\$49,925 79	
Aug. 31.	To pay roll for August.....	15	275 00	
Sept. 2.	James H. Bishop & Co., stationery.....	19	4 60	
Sept. 4.	A. C. Bauson, printing plats, etc.....	21	3 44	
Sept. 3.	C. H. Oppel & Sons, supplies on field survey.....	36	48 57	
Sept. 3.	C. H. Oppel & Sons, supplies on field survey.....	37	7 45	
Sept. 22.	L. Paulle, repairing cases.....	64	19 05	
Sept. 25.	N. H. Winchell, traveling expenses on field survey.....	68	108 25	
Sept. 25.	N. H. Winchell, traveling expenses on field survey	69	139 31	
Sept. 25.	N. H. Winchell, traveling expenses on field survey.....	70	15 45	
Sept. 25.	N. H. Winchell, salary paid assistants on field survey	71	246 38	
Sept. 25.	N. H. Winchell, salary paid assistants on field survey	72	240 15	
Sept. 25.	N. H. Winchell, salary paid assistants on field survey.....	73	366 72	
Sept. 30.	Pay roll for September.....	74	275 00	
Oct. 9.	Empire Distilling Co., one barrel alcohol	79	28 50	
Oct. 11.	N. H. Winchell, salaries and expenses on field survey	86	727 52	
Oct. 27.	J. H. Paul, repairing, etc., of cases....	100	54 70	
Oct. 28.	N. H. Winchell, salaries and expenses on field survey	102	816 33	
Oct. 28.	N. H. Winchell, salaries and expenses on field survey	103	184 89	
Oct. 28.	N. H. Winchell, salaries and expenses on field survey	104	81 00	
Oct. 30.	Pay roll for month of October..	113	275 00	
Nov. 9.	W. Howling, mounting animals.....	120	72 55	
Nov. 30.	Pay roll for November.....	146	275 00	
Dec. 24.	Pay roll for December.....	202	275 00	
Dec. 27.	N. H. Winchell, sundry expenses.....	203	95 61	
1887.				
Jan. 31.	Pay roll for January	230	275 00	
Feb. 28.	Pay roll for February.....	266	275 00	
Mar. 1.	J. A. Dodge and C. F. Sidener, analysis of minerals.....	267	142 80	
Mar. 1.	N. H. Winchell, sundry expenses.....	268	44 25	
Mar. 18.	N. H. Winchell, sundry expenses.....	274	51 07	
Mar. 31.	Pay roll for March.....	293	275 00	
April 30.	Pay roll for April.....	328	275 00	

1887.		No. of Voucher.	DR.	CR.
May 12.	N. H. Winchell, salaries and expenses of assistants	339	\$259 11	
May 31.	Pay roll for May.....	363	275 00	
June 4.	James A. Dodge, analysis of minerals..	367	49 60	
June 7.	N. H. Winchell, expenses on survey...	368	65 00	
June 7.	N. H. Winchell, paid assistant on sur- vey.....	369	542 50	
June 21.	L. Paulle, repairing cases.....	371	19 05	
June 30.	N. H. Winchell, expenses on field sur- vey.....	379	65 25	
June 30.	N. H. Winchell, expenses on field sur- vey.....	380	153 17	
June 30.	N. H. Winchell, expenses on field sur- vey.....	381	121 69	
June 30.	Pay roll for June.....	388	275 00	
July 30.	Pay roll for July.....	417	275 00	
July 31.	By transferred from account salt land sales.....			\$15,000 00
July 31.	By balance to new account.....			42,999 75
			<u>\$57,999 75</u>	<u>\$57,999 75</u>
Aug. 1.	To balance.....		\$42,999 75	

SALT LAND SALES.

1886.		No. of Voucher.	DR.	CR.
Aug. 1.	By balance from last statement.....			\$39,208 97
Oct. 20.	By H. G. Stordock, payment and in- terest on Nos. 96 and 97.....			187 20
Oct. 22.	By First National Bank, Fergus Falls, sundry interest payments.....			1,537 09
Nov. 4.	By First National Bank, Fergus Falls, interest on certificate No. 47			68 20
Nov. 10.	By First National Bank, Fergus Falls, sundry interest payments.....			194 80
1887.				
April 15.	By Citizens National Bank, Fergus Falls, interest on certificate No. 53...			25 20
June 7.	By B. N. Johnson, payment and inter- est on certificate No. 96.....			68 91
June 21.	By G. W. Cowie, sundry interest pay- ments.....			56 40
June 23.	By B. N. Johnson, payment and in- terest on certificate No. 97.....			152 40
July 8.	By Chas. J. Wright, interest on N. W. 1/4, 19-133-43.....			71 46

		No. of Voucher.	DR.	CR.
1887.				
July 20.	By C. S. Otjen, interest on sundry pieces of land.....			\$476 00
May 27.	To G. Gunderson, payments and in- terest refunded, (the land being sold to him in error, and not belonging to the university).....	349	\$304 90	
July 31.	To transferred to account geological survey.....		15,000 00	
July 31.	To balance carried to new account.....		26,741 73	
			<u>\$42,046 63</u>	<u>\$42,046 63</u>
Aug. 1.	By balance.....			\$26,741 73

INSURANCE.

		No. of Voucher.	DR.	CR.
1886.				
Aug. 1.	To balance from last statement.....		\$153 52	
1887.				
Feb. 24.	Moore & Blaisdell, premium on insur- ance.....	265	200 00	
May 23.	McMillan & Hastings, premium on in- surance.....	348	676 52	
May 30.	Christian & Wagner, premium on in- surance.....	352	192 50	
June 30.	Thompson & Worthington, premium on insurance.....	384	35 00	
June 30.	Gale & Co., premium on insurance....	385	35 00	
1886.				
Sept. 18.	By cash from state treasurer on audi- tor's warrant.....			\$1,600 00
1887.				
July 31.	To balance carried to new account.....		\$307 46	
			<u>\$1,600 00</u>	<u>\$1,600 00</u>
Aug. 1.	By balance.....			\$307 46

ENLARGEMENT OF CAMPUS.

		No. of Voucher.	DR.	CR.
1886.				
Aug. 1.	By balance from last statement.....			\$1,080 85
1887.				
July 31.	To balance to new account		\$1,080 85	
			<u>\$1,080 85</u>	<u>\$1,080 85</u>
Aug. 1.	By balance.....			\$1,080 85

FURNITURE.

		No. of Voucher.	DR.	CR.
1886.				
Aug. 1.	By balance from last statement.....			\$831 30
Nov. 3.	Glessner & Washburn, book case.....	114	\$35 00	
1887.				
June 22.	Minneapolis Furniture Co., book case..	373	55 00	
July 28.	Minneapolis Sash & Door Co., counter and postoffice cases.....	408	120 00	
July 28.	Cyrus Northrop, sundry petty bills paid.....	414	41 45	
July 31.	To balance carried to new account.....		579 85	
			<u>\$831 30</u>	<u>\$831 30</u>
Aug. 1.	By balance.....			\$579 85

SUMMARY OF ACCOUNTS, AUG. 1, 1887.

		DR.	CR.
1887.			
Aug. 1.	By balance to account, building fund.....		\$24,435 96
Aug. 1.	By balance to account, current expense.....		44,289 46
Aug. 1.	By balance to account, enlargement of campus.....		1,080 85
Aug. 1.	By balance to account, furniture.....		579 85
Aug. 1.	By balance to account, insurance.....		307 46
Aug. 1.	By balance to account, salt land sales.....		26,741 73
Aug. 1.	To balance to account, geological survey.....	\$42,999 75	
Aug. 1.	To cash on hand.....	54,435 56	
		<u>\$97,435 31</u>	<u>\$97,435 31</u>

H. P. BROWNE, TREASURER,

*In account with the University of Minnesota, for the Fiscal Year
ending July 31, 1888.*

CURRENT EXPENSE.

		DR.	CR.
1887.			
Aug. 1.	By balance from last statement		\$44,289 46
Aug. 23.	Cash from state treasurer on auditor's war- rant.....		5,212 90
Sept. 9.	Cash from state treasurer on auditor's war- rant.....		2,035 72
Oct. 6.	By cash from state treasurer on auditor's warrant.....		7,367 98
Nov. 11.	By cash from state treasurer on auditor's warrant.....		7,792 17
Dec. 5.	By cash from state treasurer on auditor's warrant.....		11,870 40
Dec. 30.	By cash from state treasurer on auditor's warrant.....		6,709 47
1888.			
Feb. 2.	By cash from state treasurer on auditor's warrant.....		6,572 69
Mar. 3.	By cash from state treasurer on auditor's warrant.....		7,429 26
July 1.	By balance transferred from students' fees account.....		1,700 00
July 31.	To balance transferred from account chem- ical laboratory	\$86 88	
July 31.	To balance transferred from account campus	134 23	
July 31.	To balance transferred from account college of agriculture.....	4,295 92	
July 31.	To balance transferred from account college of mechanic arts.....	635 14	
July 31.	To balance transferred from account em- ployes.....	6,018 91	
July 31.	To balance transferred from account farmer's institute.....	87 00	

1887.		No. of Voucher.	DR.	CR.
July 31.	To balance transferred from account heating and fuel		\$4,898 14	
July 31.	To balance transferred from account library		2,983 14	
July 31.	To balance transferred from account labora- tory of biology		156 20	
July 31.	To balance transferred from account labora- tory, geology and mineralogy		324 75	
July 31.	To balance transferred from account phys- ical laboratory		39 10	
July 31.	To balance transferred from account print- ing and advertising		1,502 99	
July 31.	To balance transferred from account repairs		718 70	
July 31.	To balance transferred from account salaries for instruction		51,150 00	
July 31.	To balance transferred from account medical department		49 15	
July 31.	To balance transferred from account inci- dentals		2,479 93	
July 31.	To balance to new account		25,419 87	
			<hr/>	<hr/>
			\$100,980 05	\$100,980 05
			<hr/>	<hr/>
Aug. 1.	By balance			\$25,419 87

APPARATUS FOR MECHANIC ARTS BUILDING.

1887.		No. of Voucher.	DR.	CR.
Nov. 23.	To J. W. Queen & Co., "barometer, compass and level	84	\$74 60	
Dec. 14.	To Byram & Co., one Collian cupola...	106	175 00	
1888.				
Feb. 1.	Miller Bros. & Fletcher, surveyors chain, etc	148	17 23	
Feb. 29.	W. R. Hoag, paid for levels, chains, etc	174	238 55	
Mar. 6.	Heath & Kimball, atomizer, etc	188	3 00	
June 5.	Trainor Bros., labor and material	292	107 55	
June 22.	Helley & Brightley, combined transit.	319	279 00	
June 29.	Janney, Semple & Co., sundry items..	323	9 99	
July 31.	By balance transferred to account me- chanic arts building			\$904 92
			<hr/>	<hr/>
			\$904 92	\$904 92
			<hr/>	<hr/>

COLLEGE OF MECHANIC ARTS BUILDING.

		No. of Voucher.	DR.	CR.
1887.				
Dec. 24.	To Trainor Bros., mason work.....	121	\$16 96	
1888.				
Jan. 26.	To Trainor Bros., stone and setting same	138	15 00	
Feb. 23.	To S. C. Cutter, labor and material....	170	150 31	
July 31.	To balance from account apparatus, college mechanic arts		904 92	
July 31.	By balance to account building fund..			\$1,087 19
			<u>\$1,087 19</u>	<u>\$1,087 19</u>

SCIENCE HALL BUILDING.

		No. of Voucher.	DR.	CR.
1887.				
Sept. 5.	To Trainor Bros., payment on founda- tion.....	15	\$1,787 00	
Sept. 12.	To Globe Publishing Co., advertising.	21	7 20	
Nov. 17.	To Trainor Bros., extra work on con- tract.....	81	1,657 00	
Nov. 22.	To L. S. Buffington, services as archi- tect	81	1,000 05	
Nov. 25.	W. P. Hoag, staking out and giving grade.....	92	10 00	
Dec. 24.	To F. A. Fisher & Co., payment on contract	120	9,000 00	
1888.				
April 21.	To F. A. Fisher & Co., payment on contract.....	218	13,000 00	
June 13.	To F. A. Fisher & Co., payment on contract	297	14,000 00	
July 5.	To F. A. Fisher & Co., payment on contract	344	12,000 00	
July 17.	To L. S. Buffington, payment as archi- tect	358	1,000 00	
July 31.	By balance carried to account building fund.....			\$53,461 20
			<u>\$53,461 20</u>	<u>\$53,461 20</u>

MILITARY BUILDING.

1888.		No. of Voucher.	DR.	CR.
May 10.	To John Hurley, work on porch.....	248	\$12 00	
May 31.	To Wheaton, Reynolds & Co., blinds...	263	37 80	
June 5.	To John Hurley, painting blinds.....	285	10 00	
July 31.	By balance carried to account building fund.....			\$59 80
			<u>\$59 80</u>	<u>\$59 80</u>

BUILDING FUND ACCOUNT.

1887.			DR.	CR.
Aug. 1.	By balance from last statement.....			\$24,435 96
1888.				
Feb. 3.	By cash from state treasurer on auditor's warrant.....			10,000 00
June 13.	By cash from state treasurer on auditor's warrant.....			15,000 00
July 10.	By cash from state treasurer on auditor's warrant.....			15,000 00
July 31.	To balance brought from account mechanic arts building.....	\$1,087 19		
July 31.	To balance brought from account science hall building.....	53,461 20		
July 31.	To balance brought from account military building.....	59 80		
July 31.	To balance carried to new account.....	9,827 77		
		<u>\$64,435 96</u>	<u>\$64,435 96</u>	
Aug. 1.	By balance.....			<u>\$9,827 77</u>

ENLARGEMENT OF CAMPUS.

1887.			DR.	CR.
Aug. 1.	By balance from last statement.....			\$1,080 85
1888.				
July 31.	To balance to new account.....	\$1,080 85		
		<u>\$1,080 85</u>	<u>\$1,080 85</u>	

		CAMPUS.	No. of Voucher.	DR.	CR.
1887.					
Sept. 6.	Charles Thompson, labor in June, July and August.....		16	\$70 80	
Sept. 29.	O. W. Willitts, labor in June, July and August.....		39	29 93	
1888.					
May 1.	H. M. Kemp, street commissioner, sixty-two loads sand at 25 cents.....		225	15 50	
June 11.	O. W. Willitts, labor on campus.....		296	18 00	
July 31.	By balance carried to account current expense.....				\$134 23
				<u>\$134 23</u>	<u>\$134 23</u>

CHEMICAL LABORATORY.

		No. of Voucher.	DR.	CR.
1887.				
Sept. 12.	Noyes Bros. & Cutler, merchandise.....	19	\$57 31	
Sept. 12.	Noyes Bros. & Cutler, merchandise....	20	2 34	
Sept. 27.	Eimer & Amend, merchandise.....	28	264 60	
Sept. 30.	Becker Bros., merchandise.....	30	100 00	
Oct. 7.	Northwestern Star Oil Co., two bar- rels gasoline.....	36	20 70	
Oct. 12.	Eimer & Amend, merchandise.....	48	13 35	
Oct. 12.	Noyes Bros. & Cutler, merchandise.....	50	1 00	
Oct. 15.	Geo. Huhn & Co., merchandise.....	71	2 00	
Nov. 23.	Noyes Bros. & Cutler, merchandise.....	86	5 25	
Dec. 24.	Northwestern Star Oil Co., gasoline.....	118	9 79	
Dec. 24.	Northwestern Star Oil Co., gasoline.....	119	9 50	
1888.				
Jan. 14.	Jas. W. Queen & Co., merchandise.....	133	7 80	
Feb. 3.	Noyes Bros. & Cutler, merchandise.....	158	24 05	
March 7.	Northwestern Star Oil Co., gasoline.....	190	9 69	
April 4.	Northwestern Star Oil Co., gasoline.....	211	9 50	
1887.				
Dec. 29.	By cash from J. A. Dodge, as students fees in chemical laboratory.....			\$180 00
1888.				
June 12.	By cash from J. A. Dodge as students fees in chemical laboratory.....			170 00
June 12.	By cash from J. A. Dodge, 20 per cent of amount received for extra work...			100 00
July 31.	Balance carried to current expense ac- count.....			86 88
			<u>\$536 88</u>	<u>\$536 88</u>

COLLEGE OF AGRICULTURE OR EXPERIMENTAL FARM.

1887.		No. of Voucher.	DR.	CR.
Aug. 19.	E. D. Porter, farm pay roll for July...	3	\$821 64	
Sept. 12.	E. D. Porter, farm pay roll for August	18	447 78	
Oct. 7.	E. D. Porter, farm pay roll for September	37	623 64	
Oct. 11.	Northrop, Braslan & Co., seeds and fertilizers	45	149 67	
Oct. 12.	Frisk & Howard, wheelwright work...	46	97 10	
Oct. 12.	E. D. Porter, expenses to Chicago and Washington	47	200 00	
Oct. 13.	Kennedy, Gebhardt & Co., repairs on steam engine	51	10 78	
Oct. 13.	C. Aultman & Co., machine repairs....	52	65 30	
Oct. 13.	Trainor Bros., painting and repairing walls	54	20 80	
Oct. 13.	F. A. Fletcher & Co., repairs on house	55	20 15	
Oct. 15.	Janney, Semple & Co., glass and putty, for plant house.....	58	10 09	
Oct. 15.	Janney, Semple & Co., sundry merchandise.....	59	40 39	
Oct. 15.	Janney, Semple & Co., sundry merchandise	60	13 75	
Oct. 15.	Janney, Semple & Co, sundry merchandise.....	61	2 91	
Oct. 15.	Janney, Semple & Co, sundry merchandise.....	62	40	
Oct. 15.	Janney, Semple & Co., sundry merchandise.....	63	9 94	
Oct. 15.	Janney, Semple & Co., sundry merchandise.....	64	24 24	
Oct. 15.	Geo. Huhn & Co., sundry merchandise.	70	41 80	
Dec. 3.	Shuman & Co., seeds.....	97	60 63	
Dec. 10.	E. D. Porter, farm pay roll for October.....	102	602 15	
Dec. 20.	E. D. Porter, farm pay roll for November.....	114	338 63	
Dec. 20.	Thompson Harness Co., harness repairs.....	115	66 15	
1888.				
Jan. 10.	E. D. Porter, farm pay roll for December.....	126	407 10	
Feb. 1.	C. T. Leonard, blankets and covers....	146	25 96	

1887.			No. of Voucher.	DR.	CR.
Feb.	1.	F. S. Martin, sundry merchandise.....	150	\$51 59	
Feb.	1.	Harrison & Smith, exhibit cards for stock.....	152	16 50	
Feb.	1.	J. M. Kelley, repairs for steam heating	154	11 60	
Feb.	2.	O. D. Wyman, blacksmithing.....	157	25 65	
Feb.	6.	Fairbanks, Morse & Co., supplies and repairs.....	163	27 00	
Feb.	13.	E. D. Porter, farm pay roll for Feb- ary.....	164	404 56	
Mar.	7.	McCarthy & Courtney, repairs on well.....	191	5 90	
Mar.	17.	E. D. Porter, farm pay roll for Feb- uary.....	195	415 90	
April	3.	Frisk & Howard, wheelwrights bill....	209	52 95	
April	5.	O. D. Wyman, blacksmith bill.....	212	13 40	
April	5.	F. A. Fletcher & Co., harness bill.....	223	23 90	
April	13.	C. E. Young & Co., printing cards.....	217	6 00	
Mar.	29.	Herzog Manufacturing Co., fixtures for cistern.....	229	8 42	
Mar.	7.	Weiskopf Bros., paint and oils.....	189	21 54	
April	30.	E. D. Porter, farm pay roll for March.	240	326 64	
May	17.	E. D. Porter, farm pay roll for April...	253	409 19	
June	1.	D. L. Wellman, expenses for advisory board.....	268	36 15	
June	1.	Geo. W. Sprague, expenses for advisory board.....	269	19 00	
June	1.	D. D. Bunn, expenses of advisory board.....	273	15 00	
June	4.	C. H. Dana, labels, etc., for stock.....	277	9 45	
June	5.	Miller Bros. & Fletcher, sundry mer- chandise.....	287	12 00	
June	5.	Miller Bros. & Fletcher, sundry mer- chandise.....	288	46 89	
June	5.	Miller Bros. & Fletcher, nails, etc., for buildings.....	293	21 58	
July	2.	A. H. Bullis, attending advisory board.....	332	15 00	
July	2.	Geo. Huhn, sundry merchandise.....	333	35 15	
July	3.	Frisk & Howard, wheelwright work...	339	31 00	
July	3.	Littlefield & Son, material and labor..	340	7 30	
July	3.	F. S. Martin, material and labor.....	341	19 00	
July	3.	McCarthy & Courtney, material and labor	342	34 26	
July	7.	E. D. Porter, farm pay roll for May...	347	461 23	
July	11.	J. B. Chatterton, fencing	350	12 72	
July	13.	F. A. Renz, rent of Poden tract.....	352	184 68	
July	13.	E. Allen, V. S., skeleton of horse.....	353	35 00	
July	31.	E. D. Porter, farm pay roll for June....	357	433 70	

1888.		No. of Voucher.	DR.	CR.
July 31.	E. D. Porter, farm pay roll for July...	368	\$648 31	
July 31.	By amount transferred from account experimental station, being its por- tion of the expenses paid from this account to March 1, 1888, as per schedule of E. D. Porter, on file.....			\$3,753 24
July 31.	By balance carried to current expense account.....			4,295 92
			<u>\$8,049 16</u>	<u>\$8,049 16</u>

COLLEGE OF MECHANIC ARTS.

1887		No. of Voucher.	DR.	CR.
Aug. 5.	Fred Erkel, making transit poles.....	1	\$11 25	
Aug. 25.	E. T. Sykes & Co., labor and material	8	41 13	
Sept. 10.	W. T. Cole, circulars and tickets.....	23	8 75	
Sept. 22.	C. H. Du Bois, advertising training school.....	25	2 00	
Oct. 10.	W. R. Hoag, paid for steel tape	42	5 60	
Oct. 11.	C. A. Hoffman, dry plates and paper...	43	2 65	
Oct. 11.	Tribune Job Printing Co., pamphlets and electrotype.....	43½	39 00	
Oct. 15.	Janney, Semple & Co., iron.....	65	10 11	
Oct. 15.	Eastman, Bovey & Co., lumber	66	22 88	
Oct. 15.	Eastman, Bovey & Co., lumber	67	2 00	
Oct. 15.	Ball & Naylor, waste and packing	69	6 50	
Nov. 4.	J. A. Schlener & Co., tracing cloth, etc	79	9 15	
Nov. 23.	W. W. Sykes & Co., merchandise.....	85	55	
Nov. 25.	Miller Bros. & Fletcher, merchandise..	90	1 13	
Dec. 6.	V. Truesdell, blacksmith coal.....	100	7 00	
Dec. 14.	Ball & Naylor, valves, etc	109	16 82	
Dec. 14.	Janney, Semple & Co., merchandise...	110	14 79	
Dec. 15.	Star Lubricating Oil Works, oil.....	111	8 55	
Dec. 19.	Crossman & Plummer, brimstone.....	113	70	
Dec. 21.	W. S. Nott & Co, belting, etc.....	116	1 85	
Dec. 29.	O. H. Peck, supplies.....	123	10 09	
1888.				
Jan. 4.	Chas. D. Whitall, 6 boxes crayon.....	124	2 40	
Jan. 11.	J. A. Schlener & Co., merchandise.....	127	3 27	
Jan. 13.	Littlefield & Son, material and labor...	128	16 36	
Jan. 13.	E. C. Cauvet, material and labor.....	130	7 92	
Jan. 16.	C. C. Dennis & Co., material and labor	137	13 10	
Jan. 30.	Northwestern Star Oil Co., oils.....	140	4 00	
Feb. 1.	Merriman, Barrows & Co., lumber for work	147	17 15	
Feb. 1.	Miller Bros. & Fletcher, merchandise supplies	149	5 77	
Feb. 2.	J. P. Gilmore, merchandise supplies...	155	8 50	

1888.		No. of Voucher.	DR.	CR.
Feb. 2.	J. P. Gilmore, merchandise supplies...	156	\$2 70	
Feb. 6.	Ball & Naylor, oiler, etc.....	162	6 65	
Feb. 14.	Janney, Semple & Co., merchandise supplies	165	3 49	
Feb. 29.	W. T. Cole, printing.....	172	11 00	
Feb. 29.	Collian Furnace Co., merchandise sup- plies.....	175	20 75	
Mar. 2.	E. W. Pyle, merchandise supplies.....	178	4 11	
Mar. 2.	Hashow, Maish & Davis, oils.....	179	8 75	
Mar. 12.	W. A. Pike, paid sundry expenses.....	192	32 65	
Mar. 12.	Janney, Semple & Co., sundry expenses	193	1 45	
Mar. 12.	H. A. Bennett & Co., hardwood lumber	194	2 88	
Mar. 20.	W. T. Cole, printing.....	197	5 50	
April 28.	Jno. F. Hayden, work on map of cam- pus.....	230	12 60	
April 30.	Ball & Naylor, supplies.....	231	16 40	
May 1.	Appleby, Clark & Co., oil.....	233	5 00	
May 17.	Bradstreet, Thurber & Co., six stools..	236	3 00	
May 23.	Janney, Semple & Co., emery wheels..	237	1 71	
May 23.	Janney, Semple & Co., shovel.....	238	1 00	
May 26.	Lockwood, Upton & Co., castings and couplings	239	7 24	
May 31.	Littlefield & Son, labor and material..	258	10 35	
May 31.	North Star Iron Works Co., iron and coke	259	56 25	
May 31.	Northwestern Paper Co., paper.....	260	6 90	
May 31.	Naylor & Co., supplies.....	261	7 10	
May 31.	Zesbaugh, Bintliff & Co., picture moulding, etc.....	265	2 56	
June 15.	W. R. Hoag, sundry expenses.....	299	10 80	
June 15.	Henry C. Brandt, printing.. ..	301	16 58	
June 15.	W. R. Hoag, sundry expenses.....	302	21 00	
June 18.	A. S. Huey, sundry merchandise.....	303	18 80	
June 19.	J. H. Bishop & Co., paper.....	304	2 65	
June 20.	W. A. Pike, sundry expenses.....	305	29 72	
June 29.	Janney, Semple & Co., sundry expenses	322	4 58	
July 31.	By balance carried to current expense account.....			\$635 14
			<u>\$635 14</u>	<u>\$635 14</u>

EMPLOYEES.

1887.		No. of Voucher.	DR.	CR.
Aug. 31.	Pay roll for August.....	11	\$301 66	
Sept. 21.	D. L. Kiehle, salary as secretary for three months.....	12	75 00	
Sept. 30.	Pay roll for September.....	31	431 66	

UNIVERSITY OF MINNESOTA.

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1887.		No. of Voucher.	DR.	CR.
Oct. 6.	B. A. Avery, assistant professor of chemistry.....	34	\$12 00	
Oct. 31.	Pay roll for October.....	77	443 66	
Nov. 30.	Pay roll for November.....	95	443 66	
Dec. 2.	D. L. Kiehle, salary as secretary three months.....	96	75 00	
Dec. 23.	W. H. Yattaw, paid assistant fireman.	117	30 00	
Dec. 24.	Pay roll for December.....	122	443 66	
1888.				
Jan. 30.	D. L. Kiehle, salary as secretary to February first.....	139	150 00	
Jan. 31.	Pay roll for January.....	144	443 66	
Feb. 29.	Pay roll for February.....	171	535 32	
Feb. 29.	W. H. Yattaw, paid assistant fireman February	176	30 00	
Mar. 31.	W. H. Yattaw, paid assistant fireman March.....	206	30 00	
Mar. 31.	Pay roll for March.....	228	493 66	
April 30.	B. A. Avery, work as assistant.....	224	6 00	
April 30.	Pay roll for April.....	224	493 66	
May 8.	Mary W. Elwell, assistant in library..	227	25 33	
May 31.	Pay roll for May.....	266	537 66	
June 1.	W. W. Folwell, balance salary as librarian.....	275	250 00	
June 9.	W.W. Dakin, janitor work.....	295	4 00	
June 30.	H. P. Browne, salary as treasurer one year.....	324	400 00	
June 30.	Pay roll for June.....	349	421 66	
July 3.	C. H. Whipps, work as engineer.....	453	40 00	
July 31.	Pay roll for July.....	364	301 66	
July 31.	By received for services from high school board.....			\$400 00
July 31.	By balance carried to current expense account.....			6,018 91
			<u>\$6,418 91</u>	<u>\$6,418 91</u>

FARMERS INSTITUTE.

1887.		No. of Voucher.	DR.	CR.
Dec. 8.	M. Pearce, expenses attending institute.....	101	\$87 00	
1888.				
July 31.	By balance carried to current expense account.....			\$87 00
			<u>\$87 00</u>	<u>\$87 00</u>

HEATING AND FUEL.

		No. of Voucher.	DR.	CR.
1887.				
Oct. 12.	North Star Iron Works Co., plates and bars for repairs.....	49	\$91 49	
Nov. 8.	Geo. C. Moore, wood.....	80	270 00	
Nov. 25.	V. Truesdell, coal.....	87	465 52	
Nov. 25.	V. Truesdell, coal.....	88	261 00	
Nov. 25.	V. Truesdell, coal.....	89	1,234 58	
Dec. 16.	Geo. C. Moore, wood.....	112	170 62	
1888.				
Jan. 31.	W. H. Yattaw, paid assistant fireman, January.....	142	30 00	
Mar. 5.	V. Truesdell, coal.....	183	51 00	
Mar. 5.	V. Truesdell, coal.....	184	1,890 65	
Mar. 5.	V. Truesdell, coal.....	185	42 50	
Mar. 5.	V. Truesdell, coal.....	186	233 28	
Mar. 12.	Geo. C. Moore, wood.....	196	157 50	
July 31.	By balance carried to current expense account.....			\$4,898 14
			<u>\$4,898 14</u>	<u>\$4,898 14</u>

LIBRARY.

		No. of Voucher.	DR.	CR.
1887.				
Aug. 24.	Gustav E. Stechert, books.....	5	\$45 72	
Aug. 25.	Harrison & Smith, binding dictionary..	9	4 00	
Sept. 8.	Mrs. Mary Bowen, work in library.....	17	18 30	
Sept. 30.	Lettie M. Crafts, paid for help.....	32	6 45	
Oct. 14.	Harrison & Smith, binding books.....	57	13 50	
Oct. 31.	Lettie M. Crafts, paid for help.....	76	12 15	
Nov. 3.	G. E. Stechert, books.....	78	373 02	
Dec. 13.	Mary Bowen, work in library.....	103	5 10	
1888.				
Jan. 31.	W. W. Folwell, half year's salary as librarian.....	141	250 00	
Feb. 1.	Harrison & Smith, binding books.....	153	50 65	
Feb. 3.	G. E. Stechert, books.....	159	88 52	
Feb. 16.	O. J. Breda, books.....	166	6 00	
Feb. 21.	R. B. Lees, bookcase.....	167	36 50	
Feb. 29.	G. E. Stechert, books.....	173	24 91	
Mar. 31.	G. Sidney Smith, eleven Annals library	204	42 00	
April 11.	W. W. Folwell, freight on books.....	215	12 28	
April 24.	W. T. Cole, printing slips.....	220	7 75	
April 30.	Harrison & Smith, binding atlas.....	232	1 50	

1888.		No. of Voucher.	DR.	CR.
May 9.	G. E. Stechert, books.....	246	\$306 73	
May 11.	C. D. Whitall & Co, maps, etc.....	251	37 25	
May 11.	C. D. Whitall & Co, books.....	252	15 60	
May 16.	Mary Bowen, work in library.....	234	7 20	
May 28.	O. J. Breda, advanced to buy books...	267	300 00	
May 31.	C. H. Hitchcock, journal of science....	256	11 00	
June 15.	M. L. Sanford, books.....	300	200 00	
June 19.	G. E. Stechert, books.....	318	665 65	
June 26.	Geo. Tunnell, work in library.....	321	5 03	
June 30.	Cyrus Northrop, president, freight and drayage for year.....	329	494 30	
1887.				
Oct. 20.	By returned from J. S. Clark, balance after buying books.....			\$35 35
Nov. 16.	By received of W. W. Folwell for books sold			22 62
1888.				
July 31.	By balance carried to current expense account.....			2,983 14
			<u>\$3,041 11</u>	<u>\$3,041 11</u>

LABORATORY OF GEOLOGY AND MINERALOGY.

1887.		No. of Voucher.	DR.	CR.
Dec. 14.	Empire Distilling Co., one barrel alco- hol.....	104	\$29 10	
Dec. 14.	W. H. Walmsley & Co., laboratory sup- plies.....	105	11 12	
1888.				
Jan. 10.	C. W. Hall, paid for books for use.....	125	72 35	
Jan. 14.	W. F. & J. Barnes Co., lithological lathe	134	38 00	
Feb. 1.	J. H. Paul, specimen cabinet.....	145	45 00	
Feb. 3.	G. L. English & Co., merchandise.....	160	7 90	
Mar. 26.	F. A. White, work in laboratory.....	198	7 50	
April 23.	H. Shufeldt & Co., barrel of alcohol....	219	29 00	
May 2.	E. O. Ulrich, merchandise.....	226	40 00	
May 30.	W. T. Cole, printing.....	255	9 50	
May 31.	F. A. White, work in laboratory.....	257	6 15	
July 19.	W. H. Walmsley, glass slides.....	360	8 25	
July 24.	C. W. Hall, sundry expenses.....	363	16 28	
July 31.	J. P. Goode, sundry expenses.....	366	4 60	
July 31.	By balance carried to current expense account			\$324 75
			<u>\$324 75</u>	<u>\$324 75</u>

LABORATORY OF BIOLOGY.

		No. of Voucher.	DR.	CR.
1887.				
Sept. 3.	H. F. Nachtrieb, materials for laboratory.....	14	\$50 00	
1888.				
Mar. 31.	H. F. Nachtrieb, materials for laboratory.....	203	40 00	
April 28.	Educational Supply Co., microscope...	221	53 20	
May 10.	H. H. Molloy, one-half dozen scalpels	249	3 00	
June 18.	H. F. Nachtrieb, freight and drayage	317	10 00	
July 31.	By balance carried to current expense account.....			\$156 20
			<u>\$156 20</u>	<u>\$156 20</u>

PHYSICAL LABORATORY.

		No of Voucher.	DR.	CR.
1888.				
Jan. 13.	Miller Bros. & Fletcher, sundry supplies.....	129	\$14 75	
April 30.	John Whitmore, sundry supplies.....	223	7 66	
May 9.	J. W. Queen & Co., thermometer.....	247	12 50	
May 31.	Folds & Griffith, enamel cloth	262	4 19	
July 31.	By balance carried to current expense account.....			\$39 10
			<u>\$39 10</u>	<u>\$39 10</u>

PRINTING AND ADVERTISING.

		No. of Voucher.	DR.	CR.
1887.				
Sept. 12.	Fergus Printing and Publishing Co., advertising.....	22	\$6 00	
Nov. 26.	Ariel Association	93	75 00	
1888.				
June 4.	O. L. Triggs, advertising.....	280	18 00	
June 14.	F. A. Johnson, advertising in Minnesota papers.....	298	300 00	
June 25.	Tribune Job Printing Co., catalogues, etc.....	320	580 78	
June 30.	Cyrus Northrop, president, sundry bills for printing and advertising.....	327	395 71	
June 30.	W. T. Cole, printing.....	330	7 00	
July 21.	Tribune Job Printing Co., printing....	362	120 50	
July 31.	By balance carried to current expense account.....			\$1,502 99
			<u>\$1,502 99</u>	<u>\$1,502 99</u>

REPAIRS.

1887.		No. of Voucher.	DR.	CR.
Sept. 24.	R. B. Lees, material and labor.....	26	\$18 80	
Oct. 6.	Boyson & Rasmussen, painting and plastering.....	35	219 25	
Oct. 11.	W. S. Nott & Co., materials.....	44	16 25	
Oct. 13.	Trainor Bros., changing mason work..	53	380 10	
1888.				
July 2.	R. B. Lees, material and labor.....	338	76 35	
July 24.	Bovey, De Laittre & Co., lumber.....	367	7 95	
July 31.	By balance carried to current expense account.....			\$718 70
			<u>\$718 70</u>	<u>\$718 70</u>

SALARIES FOR INSTRUCTION.

1887.		No. of Voucher.	DR.	CR.
Aug. 26.	W. W. Folwell, additional salary 1883 and 1884.....	10	\$500 00	
Aug. 31.	E. D. Porter, August salary.....	11	200 00	
Sept. 30.	Pay roll for September.....	31	4,955 00	
Oct. 31.	Pay roll for October.....	77	4,955 00	
Nov. 30.	Pay roll for November.....	95	4,955 00	
Dec. 24.	Pay roll for December.....	122	4,955 00	
1888.				
Jan. 31.	H. T. Ardley, instruction in January..	143	100 00	
Jan. 31.	Pay roll for January.....	144	4,955 00	
Feb. 29.	Pay roll for February.....	171	5,055 00	
Mar. 31.	Pay roll for March.....	228	5,155 00	
Apr. 30.	Pay roll for April.....	244	5,155 00	
May 31.	Pay roll for May.....	266	5,055 00	
June 30.	Pay roll for June.....	349	5,055 00	
July 31.	Pay roll for July.....	364	100 00	
July 31.	By balance carried to current expense account.....			\$51,150 00
			<u>\$51,150 00</u>	<u>\$51,150 00</u>

STUDENTS' FEES.

1888.		DR.	CR.
July 1.	By received from Cyrus Northrop for years 1887 and 1888.....		\$1,700 00
July 31.	To balance carried to current expense account.....	\$1,700 00	
		<u>\$1,700 00</u>	<u>\$1,700 00</u>

MEDICAL DEPARTMENT.

		No. of Voucher.	DR.	CR.
1887.				
Aug. 24.	G. W. Wood, car fare and salary one day.....	6	\$14 65	
Aug. 24.	P. H. Millard, car fare and salary two days.....	7	34 50	
1888.				
July 31.	By balance carried to current expense account			\$49 15
			<u>\$49 15</u>	<u>\$49 15</u>

INCIDENTALS.

		No. of Voucher.	DR.	CR.
1887.				
Aug. 17.	J. T. Travis, paper	2	\$30 80	
Sept. 24.	R. B. Lees, wardrobes per contract.....	27	158 33	
Oct. 1.	McCarthy & Courtney, material and labor.....	33	16 36	
Oct. 14.	Minneapolis Electric Construction Co., bells, batteries, etc.....	56	130 00	
Oct. 15.	Eastman, Bovey & Co., lumber.....	68	52 48	
Oct. 19.	M. Lara & Co., matting, etc.....	73	113 47	
Oct. 19.	M. Lara & Co., shades.....	74	8 00	
Oct. 26.	C. D. Whitall & Co., erasers and dusters	75	6 50	
Nov. 23.	Folds & Griffith, linoleum and laying.	83	21 61	
Nov. 25.	R. B. Lees, material and labor.....	91	15 50	
Dec. 6.	Eastman, Bovey & Co., lumber	98	18 62	
Dec. 6.	Eastman, Bovey & Co., lumber.....	99	23 11	
1888.				
Jan. 14.	Ball & Naylor, supplies.....	132	5 95	
Jan. 16.	A. H. Cramer, door springs, etc.....	136	12 00	
Feb. 1.	Erie Telegraph & Telephone Co., instrument to January 1	151	84 00	
Feb. 6.	Ball & Naylor, oils.....	161	8 03	
Feb. 21.	R. B. Lees, chalk racks, etc.....	168	9 00	
Feb. 23.	S. C. Cutter, work in coliseum building	169	191 94	
Mar. 2.	J. W. Day, ice bill.....	177	11 43	
Mar. 3.	Folds & Griffith, merchandise.....	180	4 19	
Mar. 3.	Craig Bros., merchandise.....	181	80	
Mar. 6.	R. B. Lees, making screens, etc.....	187	20 00	
Mar. 20.	U. S. Government, deposit with First National Bank as security for firearms	370	100 00	
April 5.	N. W. Telephone Co., bill for January, February and March.....	214	42 00	

1888.		No. of Voucher.	DR.	CR.
April 12.	B. Brown, hack service.....	216	\$5 00	
May 2.	H. M. Smythe Printing Co., two books	245	9 00	
May 11.	S. J. Snider, cleaning vaults.....	250	21 60	
May 24.	Peter Bushway, cleaning around build- ings	254	19 38	
May 31.	Louis Dreka, diplomas.....	264	55 00	
June 6.	Warner Bros., merchandise.....	294	42 26	
June 30.	Cyrus Northrop, president, sundry ex- penses years 1887 and 1888.....	326	914 37	
June 30.	Cyrus Northrop, president, sundry ex- penses years 1887 and 1888.....	328	324 20	
July 2.	W. H. Kingsley, repairing at spring..	334	4 00	
July 2.	W. H. Yattaw, cleaning main building	337	50 00	
July 6.	W. Howling, mounting animal.....	345	4 00	
July 11.	W. S. Nott & Co., one hundred feet of hose.....	351	20 00	
July 19.	Cyrus Northrop, president, stamps for circulars	359	45 00	
June 30.	By cash received from C. Northrop, being money advanced for postage and incidentals.....			\$118 00
July 31.	By balance carried to current expense account.....			2,479 93
			<u>\$2,597 93</u>	<u>\$2,597 93</u>

FURNITURE.

1887.		No. of Voucher.	DR.	CR.
Aug. 1.	By balance from last statement.....			\$579 85
1888.				
Jan. 13.	Glessner & Washburn, bookcase, etc....	131	\$19 00	
June 30.	Cyrus Northrop, president, paid for sundry furniture.....	325	92 95	
July 9.	Glessner & Washburn, repairing furni- ture.....	348	8 00	
July 31.	To balance to new account.....		459 90	
			<u>\$579 85</u>	<u>\$579 85</u>
Aug. 1.	By balance.....			\$459 90

INSURANCE.

		No. of Voucher.	DR.	CR.
1887.				
Aug. 1.	By balance from last statement.....			\$307 46
Sept. 21.	Thompson & Worthington, insurance on drill hall.....	24	\$175 00	
1888.				
June 5.	Gates & Co., insurance on main build- ing.....	286	135 00	
July 31.	By balance to new account.....			2 54
			<u>\$310 00</u>	<u>\$310 00</u>
Aug. 1.	To balance.....		\$2 54	

H. P. BROWNE, TREASURER,

*In Account with the University of Minnesota for the Fiscal Year
Ending July 31, 1888, Showing the Expenditures and
Receipts in the Account of*

THE EXPERIMENTAL STATION OF THE COLLEGE OF AGRICULTURE OF THE
UNIVERSITY OF MINNESOTA.

1888.		No. of Voucher.	DR.	CR.
Mar. 29.	F. W. Pickard, for postage.....	200	\$31 86	
Mar. 29.	Samuel B. Green, moving expenses...	201	100 00	
Mar. 29.	P. Osander, (error, this should be charged to college of Agriculture)..	202	34 44	
Mar. 31.	Cunningham & Haas, four feeding steers.....	205	169 69	
April 2.	Morgan Envelope Co., envelopes for bulletins.....	207	21 18	
April 2.	Prof. J. L. Budd, trees and plants.....	208	10 05	
April 3.	E. Cooley, feed bills.....	210	89 53	
April 30.	E. D. Porter, pay roll for March.....	241	297 10	
May 17.	E. D. Porter, pay roll for April.....	242	457 99	
May 17.	W. T. Keenan, books for library... ..	243	64 40	
June 1.	Occidental Mills, corn meal for feed...	270	38 80	
June 1.	Fairbanks, Morse & Co, scales, etc., for equipment.....	271	154 40	
June 1.	Littlefield & Son, pails, etc., for equipment.....	272	21 50	
June 1.	C. D. Whitall & Co., merchandise for office equipment	274	56 85	
June 4.	D. L. Kiehle, expenses paid in visiting experiment stations in other cities.	276	38 25	
June 4.	Northwestern Fertilizer Co., fertilizers	278	49 00	
June 4.	Harrison & Smith, printing.....	279	111 20	

1888.		No. of Voucher.	DR.	CR.
June 4.	C. P. Stevens & Son, furniture for office equipment.....	281	\$130 00	
June 4.	Ryan Drug Co., fertilizers.....	282	66 06	
June 4.	Pioneer Press Co., sundry printing bills.....	283	152 00	
June 4.	Minnesota Transfer Packing Co., fer- tilizers.....	284	30 15	
June 5.	Wyckoff, Seamans & Benedict, equip- ment for office.....	290	21 30	
June 5.	Wyckoff, Seamans & Benedict, equip- ment for office.....	291	115 50	
June 30.	Minnesota Linseed Oil Co., oil cake for feeding.....	331	23 00	
July 2.	P. Henderson & Co., seeds.....	306	74 22	
July 2.	P. Henderson, plants.....	307	20 71	
July 2.	F. Ford & Son, plants.....	303	7 40	
July 2.	J. T. Lovett & Co., berry plants.....	309	50 25	
July 2.	J. J. H. Gregory, seeds.....	310	23 00	
July 2.	Elwanger & Barry, berry plants.....	311	30 95	
July 2.	I. C. Wood & Bro., plants.....	312	8 75	
July 2.	J. M. Thorburn & Co., seeds.....	313	14 70	
July 2.	Coe & Converse, berry plants.....	314	35 00	
July 2.	O. F. Brand, trees.....	315	13 25	
July 2.	D. L. Kiehle (error, this should be charged to incidental account).....	316	19 77	
July 2.	Geo. Huhn, merchandise for horticul- ture.....	335	4 05	
July 2.	C. P. Stevens & Son, etomology and botany.....	336	27 00	
July 7.	E. D. Porter, pay roll for May.....	346	1,158 43	
June 30.	Pay roll, salaries for June	354	591 66	
July 9.	Dewain Cook, plants	355	6 25	
July 16.	E. D. Porter, labor pay roll, June.....	356	605 10	
July 31.	Pay roll, salaries for July.....	365	883 30	
July 31.	E. D. Porter, labor pay roll, July.....	369	461 58	
July 31.	To amount transferred to account of college of agriculture, being its part of expenses paid from that account for the year prior to the opening of this account, as per schedule of E. D. Porter on file.....		3,753 24	
1888.				
Feb. 27.	By cash received from treasurer of U. S. government.....			\$7,500 00
May 15.	By cash received from treasurer of U. S. government.....			3,750 00
July 20.	By cash received from treasurer of U. S. government.....			3,750 00

1888.		No. of Voucher.	DR.	CR.
July 16.	By cash received from E. D. Porter (This is error — should be credited to college of agriculture).....			\$116 65
July 31.	To balance to new statement.....		\$5,043 79	
			<u>\$15,116 65</u>	<u>\$15,116 65</u>
Aug. 1.	By balance.....			\$5,043 79

NOTE.—The errors of entering the vouchers Nos. 202 and 316 and the credit of \$116.65 under date of July 16th were not discovered before the main statement for year 1887–8 was made up, and as there was not then sufficient time to rectify the errors, they will appear as corrected in subsequent statement.

GEOLOGICAL SURVEY.

1887.		No. of Voucher.	DR.	CR.
Aug. 1.	To balance from last statement.....		\$42,999 75	
Aug. 23.	N. H. Winchell, expenses in field work	4	338 55	
Aug. 31.	Pay roll for August.....	11	275 00	
Sept. 3.	James A. Dodge, analysis of minerals..	13	14 40	
Sept. 30.	Pay roll for September.....	31	275 00	
Oct. 8.	N. H. Winchell, field expenses in survey.....	38	438 09	
Oct. 8.	N. H. Winchell, field expenses in survey.....	39	458 39	
Oct. 8.	N. H. Winchell, field expenses in survey.....	40	1,145 30	
Oct. 8.	N. H. Winchell, field expenses in survey.....	41	608 23	
Oct. 17.	N. H. Winchell, field expenses in survey.....	72	4 60	
Oct. 31.	Pay roll for October.....	77	275 00	
Nov. 30.	N. H. Winchell, sundry office expenses	94	181 37	
Nov. 30.	Pay roll for November.....	95	275 00	
Dec. 14.	N. H. Winchell, sundry office expenses	107	146 30	
Dec. 14.	N. H. Winchell, survey and map of river.....	108	47 00	
Dec. 24.	Pay roll for December.....	122	275 00	
1888.				
Jan. 14.	N. H. Winchell, sundry expenses	135	198 58	
Jan. 31.	Pay roll for January.....	144	275 00	
Feb. 29.	Pay roll for February.....	171	275 00	
Mar. 5.	N. H. Winchell, sundry expenses.....	182	161 97	
Mar. 26.	N. H. Winchell, sundry expenses.....	199	98 48	
Mar. 31.	Pay roll for March.....	228	275 00	
April 30.	N. H. Winchell, sundry expenses.....	222	157 49	
April 30.	Pay roll for April.....	244	275 00	
May 17.	N. H. Winchell, sundry expenses.....	235	40 86	

1888.		No. of Voucher.	DR.	CR.
May 31.	Pay roll for May	266	\$275 00	
June 5.	N. H. Winchell, sundry expenses.....	289	72 15	
July 7.	Pay roll for June	349	275 00	
July 20.	N. H. Winchell, sundry expenses.....	361	150 38	
July 31.	Pay roll for July	364	275 00	
July 31.	By balance to new statement.....			\$50,561 89
			<hr/>	<hr/>
			\$50,561 89	\$50,561 89
			<hr/>	<hr/>

SALT LAND SALES.

		DR.	CR.
1887.			
Aug. 1.	By balance from last statement		\$26,741 73
Aug. 18.	By from B. N. Johnson, first payment on certificate No. 98.....		75 38
Oct. 13.	By from B. N. Johnson, interest on certificate No. 54.....		23 28
Oct. 29.	By from First National Bank Fergus Falls, sundry interest payments.....		1,976 98
Nov. 21.	By from First National Bank Fergus Falls, interest on certificate No. 47.....		45 00
1888.			
Jan. 27.	By from Chicago, Milwaukee & St. Paul Railway Co., for W. $\frac{1}{2}$ N. E. $\frac{1}{4}$ section 26-128-47		640 00
Jan. 27.	By from Chicago, Milwaukee & St. Paul Railway Co., right of way over sections 10 and 22-128-47.....		172 50
Feb. 27.	By from First National Bank Fergus Falls, interest on W. $\frac{1}{2}$ N. W. $\frac{1}{4}$ section 2-135-45.		19 33
Feb. 29.	By from First National Bank Fergus Falls, interest on W. $\frac{1}{2}$ N. W. $\frac{1}{4}$ section 1-135-45.		25 35
Mar. 13.	By from First National Bank Fergus Falls, balance on W. $\frac{1}{2}$ N. W. $\frac{1}{4}$ section 1-135-45.		1 00
Mar. 22.	By from B. N. Johnson, first payment on certificate No. 99		139 20
June 20.	By from B. N. Johnson, interest on certificate No. 88.....		7 00
July 2.	By from B. N. Johnson, payment and interest on certificate No. 98.....		71 69
July 3.	By from Otjen Bros., interest on sundry certificates		476 00
July 7.	By from B. N. Johnson, first payment on certificate No. 100.....		75 38
July 3.	By from H. Mathies, interest on certificate No. 5.....		71 46

1888.	No. of Voucher.	DR.	CR.
July 14.	By from B. N. Johnson, in full for S. E. $\frac{1}{4}$ N. W. $\frac{1}{4}$ section 28-119-46.....		\$200 00
July 31.	By from G. W. Cowie, interest on N. E. $\frac{1}{4}$ and E. $\frac{1}{2}$ N. W. $\frac{1}{4}$ section 2-135-45.....		56 40
July 31.	To balance to new account.....	\$30,817 68	
		<u>\$30,817 68</u>	<u>\$30,817 68</u>
Aug. 1.	By balance.....		\$30,817 68

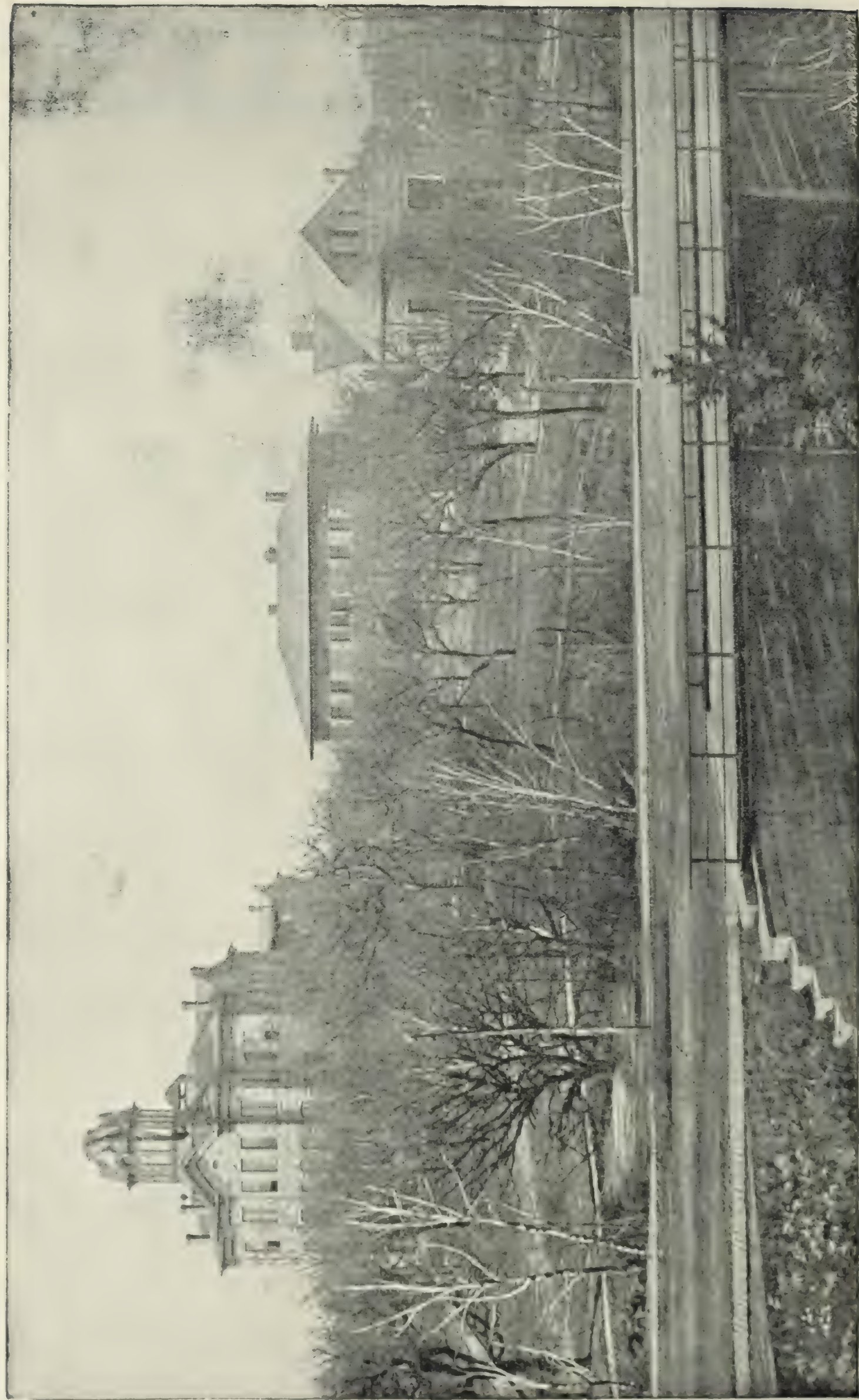
SUMMARY OF ACCOUNTS, AUG. 1, 1888.

1888.		DR.	CR.
Aug. 1.	By balance to account building fund.....		\$9,827 77
Aug. 1.	By balance to account current expense.....		25,419 87
Aug. 1.	By balance to account enlargement of campus.....		1,080 85
Aug. 1.	By balance to account furniture.....		459 90
Aug. 1.	By balance to account salt land sales.....		30,817 68
Aug. 1.	To balance to account geological survey.....	\$50,561 89	
Aug. 1.	To balance to account insurance.....	2 54	
Aug. 1.	To cash on hand.....	17,041 64	
		<u>\$67,606 07</u>	<u>\$67,606 07</u>

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1892



THE UNIVERSITY OF MINNESOTA.

SEVENTH BIENNIAL REPORT

[NO. 18 IN SERIES.]

OF

THE BOARD OF REGENTS

OF THE

UNIVERSITY OF MINNESOTA

TO THE GOVERNOR,

FOR THE

FISCAL YEARS 1891 AND 1892, ENDING JULY 31ST.

*Transmitted to the Legislature at the Twenty-Eighth
(Seventh Biennial) Session, 1893.*

MINNEAPOLIS:

HARRISON & SMITH, STATE PRINTERS

1892

BOARD OF REGENTS.

The HON. STEPHEN MAHONEY, B. A., Minneapolis,	-	-	1895
The HON. SLOAN M. EMERY, Lake City,	-	-	1895
The HON. KNUTE NELSON, Alexandria,	-	-	1896
The HON. JOHN S. PILLSBURY, Minneapolis,	-	-	1896
The HON. OZORA P. STEARNS, Duluth,	-	-	1897
The HON. WILLIAM LIGGETT, Benson,	-	-	1897
The HON. JOEL P. HEATWOLE, Northfield,	-	-	1897
The HON. GREENLEAF CLARK, M. A., St. Paul,	-	-	1898
The HON. CUSHMAN K. DAVIS, M. A., St. Paul,	-	-	1898
The HON. WILLIAM R. MERRIAM, St. Paul,	-	-	Exofficio.
The Governor of the State.			
The HON. DAVID L. KIEHLE, LL. D., St. Paul,	-	-	Exofficio.
The State Superintendent of Public Instruction.			
CYRUS NORTHROP, LL. D., Minneapolis,	-	-	Exofficio.
The President of the University.			

OFFICERS OF THE BOARD.

The HON. JOHN S. PILLSBURY,	-	-	President.
The HON. DAVID L. KIEHLE,	-	-	Recording Secretary.
President CYRUS NORTHROP,	-	-	Corresponding Secretary.
The HON. O. C. MERRIMAN[Address care Commercial Bank.]			Treasurer.

STANDING COMMITTEES.

Executive,	-	-	REGENTS PILLSBURY, NORTHROP, KIEHLE.
Agriculture,	-	-	REGENTS LIGGETT, PILLSBURY, NELSON, EMERY.
Course of Study	-	-	REGENTS NORTHROP, KIEHLE, HEATWOLE.
Library,	-	-	REGENTS KIEHLE, CLARK, NELSON.
Law School,	-	-	REGENTS CLARK, DAVIS, STEARNS.
Medical College,	-	-	REGENTS LIGGETT, MAHONEY.
Auditing Accounts	-	-	REGENTS NELSON, MAHONEY, HEATWOLE.
Salaries	-	-	REGENTS MAHONEY, CLARK, LIGGETT.

THE UNIVERSITY OF MINNESOTA, }
OFFICE OF THE BOARD OF REGENTS, }
December 13, 1892.

To His Excellency, WILLIAM R. MERRIAM,

Governor of Minnesota:

SIR: In accordance with the law, I have the honor to present herewith the seventh biennial report of the Board of Regents of the University of Minnesota, for the fiscal years of 1891 and 1892, ending July 31st.

Very Respectfully,

Your obedient servant,

JOHN S. PILLSBURY,

President.

REPORT OF BOARD OF REGENTS

OF THE

UNIVERSITY OF MINNESOTA.

To WILLIAM R. MERRIAM, *Governor of Minnesota:*

The University of Minnesota was established by act of the legislature approved February 13th, 1851, and by this act the regents and their successors were constituted a body corporate under the name and style of The Regents of the University of Minnesota. This act was amended by an act of the legislature approved February 14th, 1860, and a reorganization was accomplished by an act of the legislature approved March 4th, 1868. The preparatory department was opened in October, 1869, with an attendance of 38 students.

The University has an endowment of land made by the general government under acts of congress approved February 19th, 1851, July 2nd, 1862, and January 8th, 1870, which in the aggregate amounts to 186,000 acres. The permanent university fund is derived from the sales of the lands granted by congress, the pine timber thereon and the minerals therein. The interest on the permanent university fund, together with the legislative appropriations, constitutes the general university fund, which is devoted to the support of the University. Fifteen thousand four hundred and ten acres of land were sold to pay the debts incurred for the erection of the University in 1857 and the total number of acres now owned and unsold and belonging to the University is 51,054 acres.

The amount of the permanent fund at interest at the close of the fiscal year ending July 31st, 1892, was \$996,662.

A statement of receipts and disbursements is as follows :

	RECEIPTS.	1891.	1892.
Balance on hand.....		\$12,710.79	\$24,713.56
Interest on permanent fund.....		38,427.20	42,798.15
Appropriation by legislature.....		65,000.00	65,000.00
" " " (special).....			15,761.92
From Hatch Bill.....		22,500.00	11,250.00
From Morrill Bill.....		31,000.00	17,000.00
From miscellaneous sources.....		30,416.20	36,811.10
		<hr/> \$200,054.13	<hr/> \$213,334.73

DISBURSEMENTS.

Salaries of professors.....	\$102,767.85	\$115,458.35
Salaries of employes.....	14,009.64	19,401.23
Fuel and lights.....	11,119.42	13,677.68
Library.....	4,709.62	4,264.65
Stationery and printing.....	3,871.28	5,383.13
Furniture, apparatus and instruments.....	5,038.86	5,811.49
Repairs.....	2,815.74	3,914.02
Tools and machinery.....	1,430.92	2,724.71
Postage, &c.....	897.86	1,518.68
Miscellaneous—principally supplies.....	28,679.38	28,549.07
Balance on hand.....	24,713.56	12,581.72
	<u>\$200,054.13</u>	<u>\$213,334.73</u>

See page 39 for treasurer's report in detail.

Statement of the fees received and the expenses of the several departments of the university for the years 1891 and 1892 are as follows:

EXPENSES.

	1891	1892
General University.....	\$14,570.77	\$15,713.22
College of Science, Literature and the Arts.....	67,448.54	74,085.27
College of Agriculture.....	19,425.19	23,165.58
Veterinary department.....	2,283.93	6,085.24
Military Tactics.....	1,104.38	984.75
College of Mechanic Arts.....	16,650.70	18,065.86
Geological Survey.....	5,530.94	11,290.67
College of Law.....	5,604.10	7,284.14
College of Medicine.....	17,212.83	20,854.70
Experiment Station. { Gen. station . \$7,231.37	\$7,094.99	
	Agriculture... 6,817.24	7,800.07
	Chemistry. . . 4,752.98	3,354.43
	Entomology .. 3,071.43	1,515.42
		2,981.23
	Horticulture. 3,638.23	25,511.23
	<u>25,511.23</u>	<u>22,746.14</u>
	\$175,340.63	\$200,275.57

FEES.

From College of Science, L. and A., and Mechanic Arts.....	\$4,818.75	
From College of Law.....	4,985.00	
From College of Medicine.....	7,365.00	\$17,168.75
Amt. refunded.....		306.00
Am't turned into Treasury, (1891)....		\$16,862.75
From the Col. of S. L. and A., and the Mechanic Arts.....	5,428.25	
From the College of Law.....	7,158.00	
From the College of Medicine.....	9,100.00	
From the College of Veterinary Dept.....	280.00	\$21,966.25
Amount refunded.....		557.75
Amount turned into Treasury, (1892).....		\$21,408.50

The staffs of professors in the various departments of the University are as follows:

THE COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

THE FACULTY.

- CYRUS NORTHROP, LL. D., President.
- WILLIAM W. FOLWELL, LL. D., Professor of Political Science.
- JABEZ BROOKS, D. D., Professor of Greek.
- JOHN G. MOORE, B. A., Professor of German.
- CHRISTOPHER W. HALL, M. A., Professor of Geology and Mineralogy.
- JOHN C. HUTCHINSON, B. A., Associate Professor of Greek and Mathematics.
- JOHN S. CLARK, B. A., Professor of Latin.
- MATILDA J. WILKIN, B. L., Assistant Professor of English and German.
- MARIA L. SANFORD, Professor of Rhetoric and Elocution.
- JOHN F. DOWNEY, M. A., C. E., Professor of Mathematics and Astronomy.
- JAMES A. DODGE, PH. D., Professor of Chemistry.
- CHARLES W. BENTON, B. A., Professor of French.
- O. J. BREDÅ, Professor of Scandinavian.
- CHARLES F. SIDENER, B. S., Assistant Professor of Chemistry.
- HENRY F. NACHTRIEB, B. S., Professor of Animal Biology.
- GEORGE EDWIN MACLEAN, PH. D., Professor of English.
- HARRY PRATT JUDSON, M. A., Professor of History.
- FREDERICK S. JONES, Professor of Physics.
- CONWAY MACMILLAN, M. A., Professor of Botany.
- HENRY T. ARDLEY, Instructor in Free Hand Drawing.
- W. S. HOUGH, PH. M., Professor of Philosophy.
- O. W. OESTLUND, M. A., Assistant in Animal Biology.
- KENDRIC CHARLES BABCOCK, B. L., Instructor in English and History.
- JOSEPH BROWN PIKE, M. A., Instructor in Latin and French.
- E. EUGENE MCDERMOTT, B. S., Instructor in Elocution.
- OSCAR FIRKINS, B. A., Assistant in Rhetoric.
- LOUISE MONTGOMERY, B. S., Assistant in Rhetoric.
- EDMUND P. SHELDON, Assistant in Botany.
- ASA J. HAMMOND, B. A., Assistant in Chemistry.
- AMELIA I. RURGESS, Instructor in Free Hand Drawing.
- WILLIS M. WEST, M. A., Assistant Professor of History.
- GEORGE H. MORGAN, Lieut. U. S. A., Professor of Military Science and Tactics.
- D. L. KIEHLE, LL. D., Lecturer on Pedagogy.
- J. A. NESS, M. A., Instructor in Scandinavian and Latin.

The following is a statement of the receipts and disbursements for this department for the years 1891 and 1892:

1891	{	Receipts.....	\$ 3,618.75
		Disbursements.....	67,448.54
1892	{	Receipts.....	4,028.25
		Disbursements.....	74,085.27

THE DEPARTMENT OF LAW.

THE FACULTY.

CYRUS NORTHROP, LL. D., President.

HON. WM. S. PATTEE, LL. D., Dean and Professor of the Law of Contracts.

W. W. FOLWELL, LL. D., Lecturer on International Law.

FRANK B. KELLOGG, Esq., Lecturer on Equity Jurisprudence and Procedure.

CHARLES A. WILLARD, LL. B., Lecturer on the Law of Bailments.

JUDGE JAMES O. PIERCE, Lecturer on Constitutional and Statutory Law.

JOHN DAY SMITH, LL. M., Lecturer on the Law of Torts.

HON. GEORGE B. YOUNG, LL. B., Lecturer on the Conflict of Laws.

HON. H. F. STEVENS, Lecturer on the Law of Real Property.

HON. C. D. O'BRIEN, Lecturer on Criminal Law and Procedure.

SELDEN BACON, LL. B., Lecturer on Civil Procedure, including Evidence.

C. B. ELLIOT, PH. D., Lecturer on Corporations and Insurance.

PERRY H. MILLARD, Professor of Medical Jurisprudence.

CHARLES W. BUNN, LL. B., Lecturer on Suretyship and Mortgages, Practice in United States Courts.

T. DWIGHT MERWIN, Lecturer on Patent Law.

EDWIN A. JAGGARD, LL. B., Lecturer on Taxation.

JAMES PAIGE, LL. B., Lecturer on Domestic Relations and Quiz Master.

The following is a statement of the receipts and disbursements of this department for the years 1891 and 1892:

	1891.	1892.
Receipts.....	\$4,985.00	\$7,158.00
Disbursements	5,604.10	7,284.14

THE COLLEGE OF ENGINEERING, METALLURGY AND THE MECHANIC ARTS.

THE FACULTY.

CYRUS NORTHROP, LL. D., President.

CHRISTOPHER W. HALL, M. A., Dean and Professor of Geology and Mineralogy.

WM. A. PIKE, B. S., Lecturer on Mechanical Engineering.

WILLIAM R. HOAG, C. E., Professor of Civil Engineering.

WILLIAM R. APPLEBY B. A., Professor of Mining and Metallurgy.

GEORGE D SHEPARDSON, A. M., M. E., Professor of Electrical Engineering.

JOHN C. HUTCHINSON, M. A., Associate Professor of Mathematics.

HENRY T. ARDLEY, Instructor in Free Hand Drawing.

HARRY E. SMITH, M. E., Instructor in Mechanical Engineering.

AMELIA I. BURGESS, Instructor in Free Hand Drawing.

HARRY W. JONES, Instructor in Architecture.

PETER CHRISTIANSON. B. S., Instructor in Assaying.

W. W. GREENWOOD, B. C. E., Instructor in Mechanical Drawing.

JAMES M. TATE, Instructor in Wood Work.

HARRY J. FRAIKEN, Instructor in Iron Work.

J. E. WADSWORTH, Assistant Professor of Civil Engineering.

HARRY W. DIXON, Engineer.

In this College there are seven regular courses of study, viz: Civil Engineering, Mechanical Engineering, Electrical Engineering, Architecture, Mining, Chemistry and Metallurgy. leading to the corresponding baccalaureate degrees.

Special students are admitted to pursue, under the direction of the faculty, one or two distinct lines of study selected from some regular course. Such students must be persons of mature years. "All applicants, as conditional to their admission as special students, shall pass an examination in so many of the subjects known as requisites for entrance to the regular course of study, as properly belong to or are naturally introductory to the line or lines of study they have elected."

The following is a statement of the receipts and disbursements of this department for the years 1891 and 1892.

1891	{	Receipts.....	\$1,200.00
		Disbursements.....	16,650.70
1892	{	Receipts.....	\$1,400.00
		Disbursements.....	18,065.86

THE COLLEGE OF MEDICINE AND SURGERY.

THE FACULTY.

- CYRUS NORTHROP, LL. D., President.
GEORGE A. HENDRICKS, M. S., M. D., Professor of Anatomy.
RICHARD O. BEARD, M. D., Professor of Physiology.
C. J. BELL, A. M., Professor of Chemistry.
H. M. BRACKEN, M. D., L. R. C. S. E., Professor of Materia Medica and Therapeutics.
CHARLES H. HUNTER, A. M., M. D., Professor of the Theory and Practice of Medicine.
EVERTON J. ABBOTT, A. B., M. D., Associate Professor of Practice.
PERRY H. MILLARD, M. D., Dean of the College, Professor of the Principles of Surgery and Medical Jurisprudence.
CHARLES A. WHEATON, M. D., Professor of the Practice of Surgery and Clinical Surgery.
FREDERICK A. DUNSMOOR, M. D., Professor of Operative and Clinical Surgery.
ALEX. J. STONE, M. D. LL. D., Professor of Diseases of Women.
AMOS W. ABBOTT, M. D., Clinical Professor of Diseases of Women.
PARKS RITCHIE, M. D., Professor of Obstetrics.
JOHN F. FULTON, PH. D., M. D., Professor of Ophthalmology, Otology and Hygiene.
FRANK ALLPORT, M. D., Clinical Professor of Ophthalmology and Otology.
C. EUGENE RIGGS, A. M., M. D., Professor of Nervous and Mental Diseases.
JAMES H. DUNN, M. D., Professor of Diseases of the Genito-Urinary Organs.
CHAS. L. WELLS, A. M., M. D., Professor of Diseases of Children.
JAMES E. MOORE, M. D., Professor of Orthopædic Surgery.
M. P. VANDERHORCK, M. D., Professor of Diseases of the Skin.
W. S. LATON, M. D., Professor of Diseases of the Throat and Nose.
THOMAS G. LEE, B. S., M. D., Instructor in Histology, Bacteriology and Urinalysis.
J. CLARK STEWART, B. S., M. D., Professor of Pathology.
J. W. BELL, M. D., Professor of Physical Diagnosis and Clinical Medicine.
CHAS. L. GREEN, M. D., Lecturer on Surgical Anatomy.
A. B. CATES, A. M., M. D., Adjunct Professor of Obstetrics.
A. McLAREN, A. B., M. D., Adjunct Professor of Gynecology.
W. A. JONES, M. D., Adjunct Professor of Diseases of the Nervous System.
FRANK BURTON, M. D., Demonstrator of Anatomy.
H. L. STAPLES, A. M., M. D., Instructor in Medical and Pharmaceutical Latin.

COLLEGE OF HOMŒOPATHIC MEDICINE AND SURGERY.

THE FACULTY.

CYBUS NORTHROP, LL. D., President.

WILLIAM E. LEONARD, A. B., M. D., Professor of Materia Medica and Therapeutics.

HENRY HUTCHINSON, M. D., Professor of Theory and Practice of Medicine.

GEORGE E. RICKER, A. B., M. D., Professor of Clinical Medicine and Clinical Diagnosis.

ROBERT D. MATCHAN, M. D., Professor of the Principles and Practice of Surgery.

WARREN S. BRIGGS, B. S., M. D., Professor of Clinical and Orthopædic Surgery.

HENRY C. LEONARD, B. S., M. D., Professor of Obstetrics.

B. HARVEY OGDEN, A. M., M. D., Professor of Gynecology and Genito-Urinary Diseases.

ALBERT E. HIGBEE, M. D., Clinical Professor of Gynecology.

JOHN F. BEAUMONT, M. D., Professor of Ophthalmology.

HENRY W. BRAZIE, M. D., Dean and Professor of Pædology.

EUGENE L. MANN, A. B., M. D., Professor of Diseases of the Heart and Respiratory Organs.

D. A. STRICKLER, M. D., Professor of Otology and Rhinology.

HENRY C. ALDRICH, D. D. S., M. D., Adjunct Professor of Materia Medica and Therapeutics.

A. P. WILLIAMSON, A. M., M. D., Professor of Mental and Nervous Diseases. Lecturer on Skin and Venereal Diseases.

The instruction in the primary branches is received with the students of the other colleges in the following chairs :

GEO. A. HENDRICKS, M. S., M. D., Professor of Anatomy.

RICHARD O. BEARD, M. D., Professor of Physiology.

C. J. BELL, A. M., Professor of Chemistry.

PERRY H. MILLARD, M. D., Professor of Medical Jurisprudence.

JOHN F. FULTON, M. D., Professor of Hygiene.

THOMAS G. LEE, A. M., M. D., Instructor in Histology and Bacteriology.

THE COLLEGE OF DENTISTRY.

FACULTY.

CYRUS NORTHROP, LL. D., President.

W. XAVIER SUDDUTH, A. M., M. D., D. D. S., Dean and Professor of Pathology and Oral Surgery.

*THOMAS E. WEEKS, D. D. S., Professor of Operative Technics and Dental Anatomy.

CHARLES M. BAILEY, D. M. D., Prosthetic Dentistry, Metallurgy and Orthodontia.]

WILLIAM P. DICKINSON, D. D. S., Professor of Operative Dentistry and Dental Therapeutics.

GEO. A. HENDRICKS, M. S., M. D., Professor of Anatomy.

RICHARD O. BEARD, M. D., Professor of Physiology.

C. J. BELL, A. B., Professor of Chemistry.

H. M. BRACKEN, M. D., L. R. C. S. E., Professor of Materia Medica.

THOMAS G. LEE, A. M., M. D., Instructor in Histology.

INSTRUCTORS.

HENRY F. NACHTRIEB, B. S., Lecturer on Comparative Dental Anatomy.

————— Demonstrator in Charge of the Prosthetic Clinic.

*F. E. TWITCHELL, D. M. D., Instructor in Continuous Gum Work.

*J. D. JEWETT, D. D. S., Instructor in the Administration of Anæsthetics.

MILAN AUSTIN KNAPP, D. D. S., Instructor in Technics.

*FORREST HOY ORTON, D. D. S., Instructor in the Treatment of the Cleft Palate.

CLINICAL INSTRUCTORS.

*DR. F. H. BRIMMER,

*DR. E. F. CLARK,

*DR. A. W. FRENCH,

*DR. M. G. JENISON,

*DR. C. W. JONES,

*DR. F. A. DUNSMOOR,

*DR. J. E. MOORE,

*DR. J. W. PENBERTHY,

*DR. C. H. ROBINSON,

*DR. C. A. VAN DUZEE,

The receipts and disbursements of the three departments have been as follows:

1891	{	Receipts	\$ 7,365.00
		Disbursements.....	17,212.83
1892	{	Receipts	\$ 9,100.00
		Disbursements.....	20,854.70

*There are 32 professors in the medical department who receive no pay.

SCHOOL OF AGRICULTURE.

1892.

CYRUS NORTHROP, LL. D., President.
W. W. PENDERGAST, Principal, Civics, Physical Geography.
H. W. BREWSTER, A. B., Assistant Principal, Mathematics.
CLINTON D. SMITH, M. S., Agriculture, Dairying.
WILLIAM ROBERTSON, B. S., Physics, Language.
C. R. ALDRICH, Shop-work, Drawing.
T. L. HAECKER, Breeding and Dairying.
SAMUEL B. GREEN, B. S., Horticulture and Applied Botany.
OTTO LUGGER, PH. D., Zoology and Entomology.
CHRISTOPHER GRAHAM, B. A., Physiology, Veterinary Science.
HARRY SNYDER, B. S., Chemist.
J. A. VYE, Penmanship, Accounts.
FLORENCE A. BREWSTER, Librarian.

The following is a statement of the receipts and disbursements of this department for the past two years:

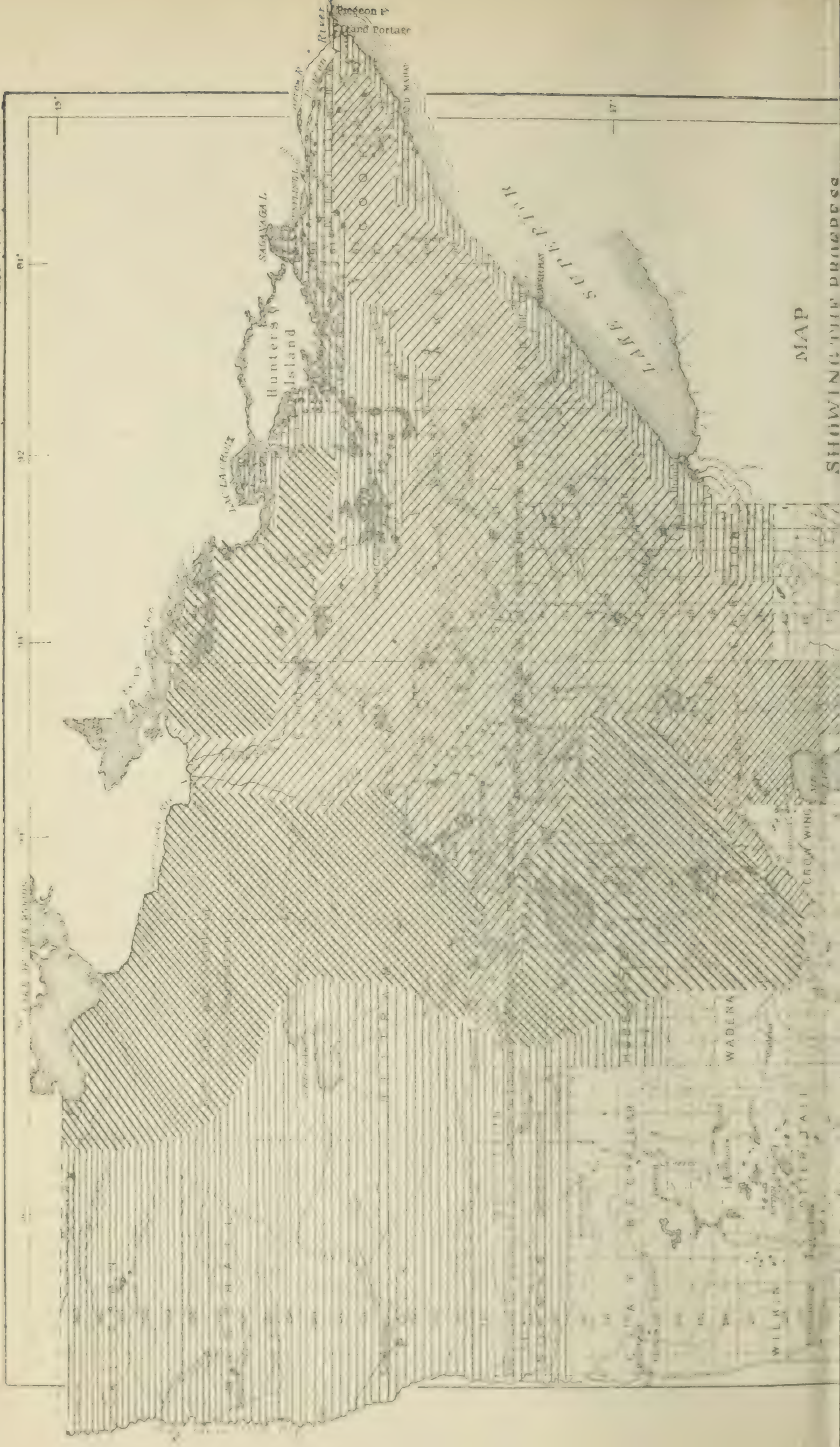
	1891.	1892.
Receipts.....	\$1,739.28	\$2,452.42
Disbursements.....	19,425.19	23,165.58

EXPERIMENTAL STATION.

CLINTON D. SMITH, M. D., Professor of Agriculture and Director of Experimental Station.
OTTO LUGGER, Ph. D., Professor of Entomology and Botany.
SAMUEL B. GREEN, B. S., Professor of Horticulture.
HENRY SNYDER, B. S., Professor of Agricultural Chemistry.
CHRISTOPHER GRAHAM, Professor of Veterinary Science.
F. L. HAESCHER, Instructor in Dairying.
J. A. VYE, Secretary and Accountant.

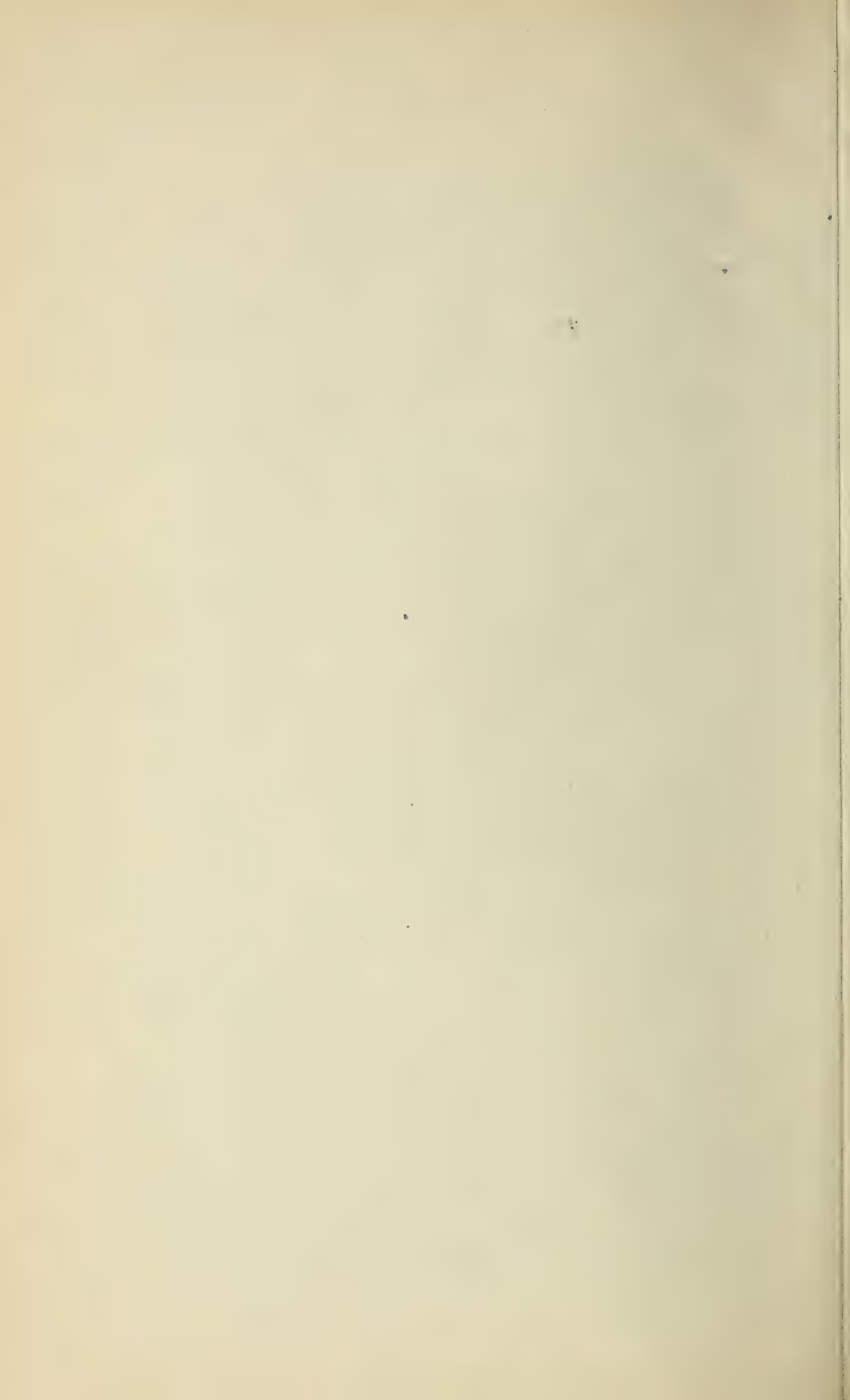
The receipts and disbursements of the department for the years 1891 and 1892 are as follows:

1891	{	Receipts.....	\$ 3,819.11
		Disbursements.....	25,511.23
1892	{	Receipts.....	\$ 2,941.50
		Disbursements.....	22,746.14



MAP

SHOWING THE PROVINCES



The following is the enrollment of the University from 1885 to date.

For the year 1885.....	310
For the year 1886.....	406
For the year 1887.....	412
For the year 1888.....	491
For the year 1889.....	781
For the year 1890.....	1,002
For the year 1891.....	1,183
For the year 1892.....	1,374
For the year 1893.....	1,500

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THE GEOLOGICAL SURVEY.

During the last two years the active work has been prosecuted in the northern part of the State, and in 1892 on the paleontology of the southern part. There have been published the following:

- The Iron Ores of Minnesota. Bulletin No. 6.
- Their Geology, Discovery, Development, Qualities and Origin and Comparison with those of other Iron Districts.
- The Nineteenth Annual Report.
- The Mammals of Minnesota. Bulletin No. 7.
- A scientific and popular account of their features and habits.
- There are in press the following:
- The Twentieth Annual Report.
- Vol. 3 of the final report, mainly devoted to paleontology.

The following assistants have been at work under Professor Winchell for different lengths of time:

- Ulysses Sherman Grant, on the crystalline rocks and iron ores.
- Herbert R. Wood, aid to Mr. Grant on the crystalline rocks.
- Horace V. Winchell, on the geology of the iron ores.
- Charles Schuchert, in paleontology.
- Andrew C. Lawson, on the elevated beaches and on certain features of the Animikie of the north shore of Lake Superior.
- E. O. Ulrich, in paleontology.
- Louis A. Ogaard, surveyor and draughtsman.
- H. A. Elftman, field assistant.
- J. E. Todd, pleistocene field geology.
- A. W. Chase, aid to Prof. J. E. Todd.

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417
469
579
583
715

The geological survey pointed out the existence of the Mesabi iron range several years before it was explored and predicted distinctly the discovery of large quantities of iron ore in the region north and northwest from Duluth. The progress of development of this important discovery has been continually under the scrutiny of the State Geologist, and from year to year the changes that took place have been put on record in the reports of the Board of Regents, including also the statistics of the mining of iron in the Vermilion range. Already the direct financial returns to the treasury of the State have been greater than the entire cost of the survey since its commencement.

The present state of progress of the survey is shown by the accompanying sketch map of the State. It is thought that a few more years will bring it to substantial completion, warranting a final report and mapping similar to the reports and maps that have been published of other portions of the State.

The expense of the geological survey for the year 1891 was \$5,531, and for 1892 \$11,291.

The Zoological Division of the Geological and Natural History Survey is under the charge of Prof. H. F. Nachtrieb.

The primary object of this Division is to collect the material and all information necessary for a basis for a reliable report on groups of animals which are of the most economic importance, and to investigate all conditions which influence the quantity and quality of those animals which have a direct economic value. Thus not only the habits, distribution and scientific description of our food fishes, but also their parasites and neighbors, foes and friends, and favorable and unfavorable conditions are being investigated.

At present the field work is largely confined to the fishes of the Mississippi basin. During the past summer about ten weeks were spent by a party of four collecting in Ramsey county and Mille Lacs Lake region.

The material collected is all carefully preserved, labelled and arranged. Specimens of each species have been set aside for the general museum, the rest of the material is systematically stored for future reference, comparison and study.

New specially designed and fitted cases have been placed in the zoölogical museum in Pillsbury Hall, and are now being filled with the best specimens of animals of the State in systematic order, so that when this portion of the museum is completed one will be able not only to see representative specimens of the animals of our State, but will also be able to get at a glance the general family relationship and gather various interesting and important facts of life histories. Special wall cases have been provided for insects in order to make possible a good display of the different orders with selected typical specimens found in the State, and to give as nearly as possible, the whole life histories of the most important of the farmer's insect friends and foes.

Among the valuable things added to the museum are a fine specimen of a the black tailed deer from Kittson county and a large, very fine presentation collection of bird skins from Minnesota and the Northwest.

It is safe to say that if the present plans are carried out the zoological museum will be without its equal among those collections representing state faunas.

The first report of the State Zoologist forms a supplementary part of the Board of Regents, report, and consists almost entirely of Notes on the Birds of Minnesota, by Dr. P. L. Hatch, who for many years has been an enthusiastic ornithologist of this State and contributes these notes without expense to the State.

The Botanical Division of the survey is in charge of Prof. Conway MacMillan. In June, 1891, Messrs. E. P. Sheldon, C. A. Ballard and B. C. Taylor were commissioned to prosecute field-work in different portions of the Minnesota valley. Mr. Ballard spent two months in the vicinity of the mouth of the Minnesota, working through Carver, Scott and Dakota counties. Messrs. Sheldon and Taylor spent three months in the southern and western portions of the valley. Pope and Douglas counties were especially studied by Mr. Taylor, and the valleys of the Cottonwood, Redwood, and Lac qui Parle by Mr. Sheldon, who also spent some time along the northeast slope of the Coteau des Prairies, especially in the vicinity of Lake Benton. Through the intelligent, energetic and expert endeavors of these, some 20,000 specimens of flowering plants vascular cryptogams, mosses, fungi and fresh-water algae were collected, of which number more than 3,000 have been mounted in proper fashion and placed in the herbarium of the survey. The total number includes many exchange plants and duplicates which will be of value in building up weak places in the general herbarium.

In 1892 the field-work was farther prosecuted by Messrs. W. D. Frost, E. P. Sheldon, C. A. Ballard and B. C. Taylor. Mr. Frost spent the entire summer in Meeker and Kandiyohi counties. Mr. Ballard spent two months in Nicollet county, working eastward during August and completing his summer's work in the neighborhood of Zumbrota. Mr. Taylor spent the entire summer in the vicinity of the Chisago lakes, Chisago county. Mr. Sheldon spent June and July studying the Mille Lacs and Rum River drainage basin, and moving westward, completed his summer's work in the Leaf Hill district of Otter Tail and Douglas counties.

This year some 30,000 specimens of flowering-plants, ferns, mosses, liverworts, fungi and fresh water algae were collected.

The identification and arrangement of this material is now being carried on by Messrs. Sheldon, Ballard and Frost.

The collections have been made during this season with especial reference to exchanges, the intention being to obtain as much material as possible in this way for comparison with our Minnesota flora.

In the work of identification of Minnesota plants, the need of comparative material is felt in the herbarium. It is for obtaining this material by exchange that the work has been prosecuted during the season of 1891 and 1892.

The first report of the State Botanist now in the hands of the printer contains not only a critical catalogue of the meta-spermic flowering plants of the Minnesota valley, but also an effort to tabulate the general distributional characteristics of families, genera and species.

The large collections in the herbarium of the Department of Botany, which numbers not far from 62,000 specimens, afforded excellent facilities for comparison when critical forms were under consideration.

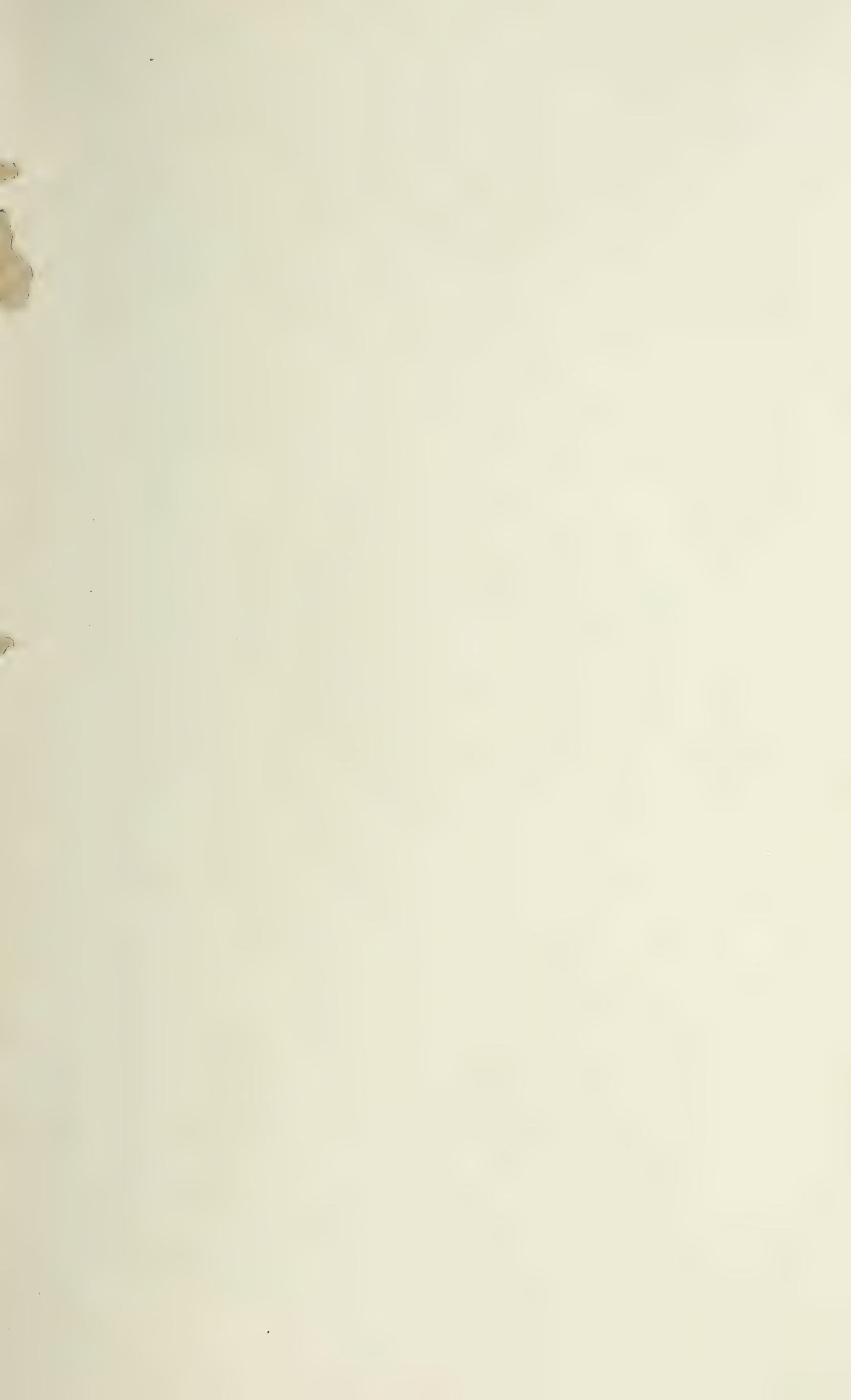
Future Outlook—The work of a survey that is directed to make an examination of all the vegetable productions of a state, must needs pay particular attention to the fungi and algae. The great economic problems of Minnesota are to be solved only by a critical knowledge of the parasitic and saprophytic plants which constitute the major portion of our flora.

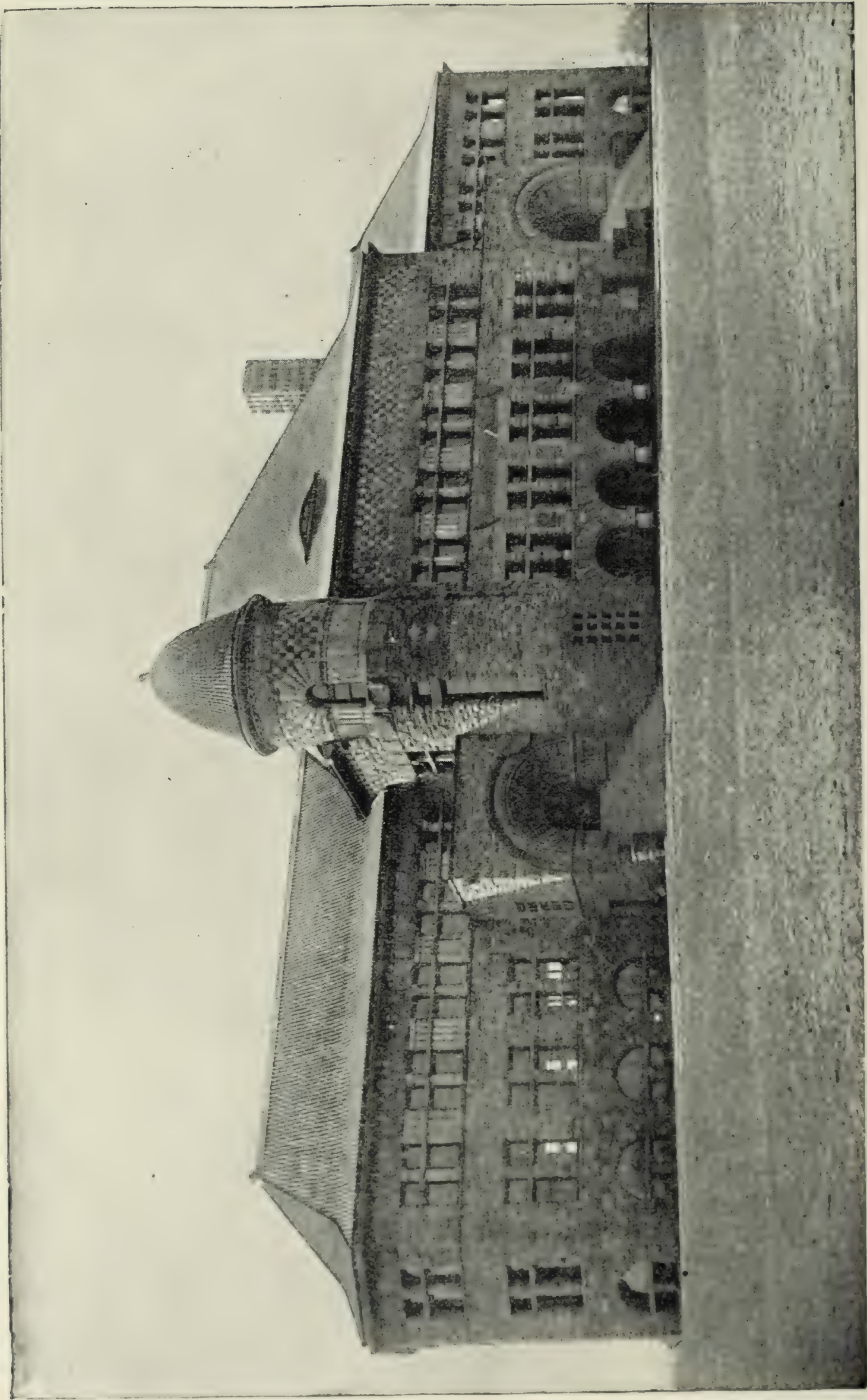
The algae, also, which constitute the flora of almost every drop of water in our lakes and streams, need particular study from a combined scientific and economic point of view.

DAIRY BUILDING.

It will be remembered that the board in its last report asked for an appropriation of \$100,000 for the erection of a building for the medical department and \$50,000 for the erection of a building for the agricultural department at the farm school. Owing to the heavy demands made upon the state treasurer for the erection of public hospitals and other state buildings, an appropriation of \$80,000 only was made to the University.

Immediately after the passage of the act making this appropriation, the regents, after a thorough consideration of the immediate necessities of the University, decided to use \$15,000 or more of the appropriation for the erection and equipment of a dairy building for the accomodation of the department of agriculture at the farm school, and to erect a building for the ac-





PILLSBURY HALL—STATE UNIVERSITY.

commodation of the medical department, at a cost not to exceed \$60,000. A building committee consisting of the executive committee with Regent Leggett added was appointed by the board to procure plans for the two structures.

For the dairy building the plans presented by architect Charles Aldrich were accepted and proposals were asked for its erection. The following bids were received:

J. H. Nickel, St. Paul.....	\$13,250.00
Trainor Bros., Minneapolis.....	15,000.00
R. E. Patterson, St. Paul.....	12,554.00
Kilroe Bros., Minneapolis.....	12,370.00
C. P. Wilding, St. Paul.....	13,593.00
A. J. Sampson, Minneapolis.....	13,050.00
A. J. Hoban, St. Paul.....	16,150.00
Erick Lund, Minneapolis.....	13,000.00
B. M. McMahon, St. Paul.....	11,823.00
McSherry & White, St. Paul.....	16,439.00
B. J. Grimshaw, St. Paul.....	13,969.00
Joseph Congdon, Minneapolis.....	11,445.00

Joseph Congdon being the lowest bidder was awarded the contract. Upon its completion, apparatus of the most modern pattern was purchased and suitable equipment secured for the building at a cost of \$6,155.00, making the total outlay in this department of \$17,600.00. The dairy building is of a commodious size, built of brick in a thoroughly substantial manner, after the most modern plans, with a complete equipment, including apparatus for experiments, handling of milk, and butter and cheese making, as well as machinery and outfit necessary for giving thorough and complete instruction to students in the agricultural department in the latest and best methods of dairy work.

The building is two stories high, thoroughly plumbed and provided with cold storage rooms. There are four office rooms above and one large room for general purposes. It is heated with steam throughout supplied from a 40-horse power boiler. The steam separator is driven by a small engine; on the main floor are two rooms, each 42x30 feet, both well lighted and ventilated and fully equipped for butter and cheese making. There is an abundant supply of hot and cold water. The lecture room is large and arranged so that animals may be taken before students of the agriculture school for illustration in stock raising.

MEDICAL DEPARTMENT.

For this building competitive plans were invited and architects L. P. Buffington, Harry W. Jones, ——— Whitney, Wilber Pardee, and Messrs. Reed & Stem responded. The plans presented by Messrs. Reed & Stem were accepted, as the committee considered the arrangement for ventilating the building the most complete in the plans offered by them, although those presented by the other architects were very satisfactory. Upon the acceptance of the plans, the following bids were received for the erection of the building:

F. E. Graves.....	\$59,560.00
E. Brace.....	57,490.00
Seymour & Hart.....	59,108.00
Trainor Bros.....	56,346.00
H. Downs & Son.....	62,500.00
McSherry & White.....	54,979 00
A. J. Frodden & Co.....	59,652.00
S. C. Cntter.....	58,400 00
A. J. Sampson.....	58,200.00
H. N. Leighton.....	62,000.00
Taylor & Craig.....	55,856.00
H. E. Selden..	62,300.00
Folie & Smith.....	59,478.00
Libby & Libby.....	66,040 00
E. C. Long & Co.....	55,145.00
Kilroe Bros.....	56,000 00
Erick Lund.....	53,474.00

Erick Lund being the lowest bidder was awarded the contract at \$53,474.00; to which must be added the sum of \$11,526 expended in excavating about the building and for fixtures, furniture and general equipment, making a total outlay of \$65,000. The building has been fully completed in accordance with the contract, and was formally opened for occupancy on October 5th, 1892.

This building is three stories and a high basement. The basement and first story is constructed of brown sandstone surmounted with the second and third stories, which are of Roman brick. The general style of architecture is renaissance, and the building is located on a commanding site on the campus. The internal appointments are arranged for the accommodation of the schools of homœopathy and allopathy with adequate apartments for the dental department. The ampitheater lecture room is of sufficient size to seat all students in attendance upon the lectures. In preparing plans for the building much thought and study was given by the committee to have the building in all respects perfect. The system of heating, lighting and ventilating is admirable. It was the aim of the committee to have the buiding a model of its kind. We believe that there

is no building of its size and cost in the country that excels it in symmetry, completeness of design, and entire adaptation, to the purposes for which it was built. This department is now amply provided with buildings for its present and prospective needs.

CHEMICAL LABORATORY.

It was a part of the original plans of the medical building to place the medical laboratory in the basement. After the construction of the building was far advanced, it was found that its size was not only insufficient to accomplish that purpose, but that it was a mistake to locate the chemical department in the main medical building. To overcome this objection, the committee finally decided to erect a separate building for the laboratory. The needs of the department required that this should be done at once. Accordingly plans were prepared by architect H. W. Jones and proposals were invited for the construction of the building. The bids received were as follows:

E. Kneeland.....	\$5,885.00
E. Brace.....	6,989.00
F. G. McMillan.....	8 551.00
Downs & Co.....	8,147.00
E. Siskron.....	8,450.00
E. Lund.....	6,912.00
Kilroe Bros.....	6,554.50
Littlefield & Hall.....	6,987.00

E. Kneeland being the lowest bidder was awarded the contract at \$5,885. This structure is now completed in accordance with the contract and equipped with the apparatus and fixtures necessary to conduct the chemical, histological and pharmaceutical work of the medical department.

The cost of excavation, fixtures and equipments amounts to \$3,315, making the total cost of the medical laboratory \$9,200, which is in addition to the costs of the main medical building.

BURNING OF THE CHEMICAL LABORATORY AT THE AGRICULTURAL COLLEGE.

Since the last report of the Regents, the Chemical Laboratory and station building at the Agricultural school with all its contents was, on October 5th, destroyed by fire causing a loss of upwards of \$15,000. There was a partial insurance of \$5,000 on the building and apparatus. The loss of the building just at the opening of the fall term was seriously felt. Many of the experiments under process together with all apparatus were a total loss. The regents upon adjusting the loss, decided to rebuild on another site. The committee was directed

to procure plans for a new building at once. From the plans presented by several architects, those of Mr. Charles Aldrich were accepted and bids for the construction of the building were received. That of Kilroe Bros. was the lowest and to them was awarded the contract. The new building was completed in time for the opening of Autumn term of the Agricultural school and has been fully equipped with the latest and most approved chemical apparatus. The contract price of this building was \$8,000, to which must be added \$7,282 expended for apparatus, fixtures and equipment, making a total cost of \$15,282.

SCHOOL OF AGRICULTURE..

The School of Agriculture, which was opened in 1888, has steadily increased in attendance and grown in the estimation of the people of the State, under the superintendency of Prof Pendergast and his associate professors. This department of the University is especially adapted to give young men a thorough training and knowledge in all branches of learning which pertain to practical agriculture. It encourages them to return after graduation to their rural homes and to engage for life in the various pursuits of agriculture. They become fully qualified to meet intelligently the demands which may be made upon them as useful citizens. The enrollment in this department since the opening of the school is as follows: 1888, 38; 1889, 47; 1890, 78; 1891, 104; 1892, (Spring term) 115; 1892, (Fall term) 135.

The regents have every assurance to believe that the establishment of this school in the curriculum adopted and the general scope of the work supplies all that is required to meet the demands of the agricultural interests of the state. The authorities are constantly in receipt of inquiries from many states seeking information about the so-called Minnesota plan of our agricultural college.

CHANGES IN THE STAFF AT THE EXPERIMENTAL STATION.

In February, 1891, Prof. N. W. McLain, director of the Experimental Station, tendered his resignation. The board found in Clinton D. Smith, a graduate of Cornell University, an educated man and a practical agriculturist, to fill the vacancy.

Dr. Schwarkshopf, veterinarian, also tendered his resignation in the summer of 1892, and Dr. Christopher Graham, B. S. M. V. D., was appointed. He is a graduate of the University and has taken a special course in veterinary science in the University of Pennsylvania.

Prof. W. M. Hays, Professor of Agriculture, who had been connected with the station for several years, and a most efficient officer, tendered his resignation on the first of July to take the presidency of the North Dakota Agricultural college. The services of Prof. T. L. Haecker have been secured to fill the vacancy, and he has been appointed assistant Professor of Agriculture and placed in charge of the dairy experiments.

A great variety of experiments have been made during the past two years. Over 135,000 bulletins have been issued from the station since the last report. These have been mailed to the people throughout the State. They embrace treatises on flax culture, sugar beets—their culture and process of manufacture, and many other subjects of deep interest to the agriculturist as well as to the general reader who seeks information on all subjects. For a full list of these subjects I refer to the report of the director of the station.

THE DESTRUCTION OF THE CHAPEL BY FIRE ON APRIL 30TH LAST ; NARROW ESCAPE OF THE AUDIENCE.

On April 30th, 1892, while several hundred students and instructors were assembled in the chapel, located on the third story of the main building, a fire broke out near the stage, and in a short time the roof and cupola were enveloped in flames. The audience, very fortunately, escaped without injury. The roof of the building and the assembly room were destroyed before the fire department, which did most noble work, could bring the fire under control. The building was thus left exposed to the heavy rains and winds which were prevailing. During the burning a large number of students and other persons removed the library from the shelves, which were being badly wet with water from the engines. The whole library was thus removed.

This is the second time that the library has been removed during the burning of some portion of the building, and many books have been more or less damaged each time.

Much complaint has been made by patrons of the University against holding chapel exercises on the third story of the building, and the regents, after witnessing the narrow escape of the students and others, did not feel justified, nor would they assume the responsibility of again occupying the third story of the building for assembly purposes.

For these and other reasons they have dispensed with the use of the chapel hall, believing that it is the duty of the State to furnish sufficient funds with which to erect a building in which chapel exercises may be held on the ground floor in perfect safety.

One of the greatest necessities, which has long existed, is a library building where the library, which now numbers upwards of 30,000 volumes, may be safely kept. The rooms now occupied for the library were intended only for temporary use. After many days of calculation, thought and consideration as to what should be done for an assembly hall and safe library building, the regents have concluded that the only proper solution of the problem is to erect a fireproof building of sufficient size to accommodate the library and assembly hall. For this purpose we have prepared plans and have made estimates of the cost of the building, and respectfully ask that an appropriation of \$150,000 be made for that purpose.

It must be remembered that the state of Minnesota has developed marvelously during the past decade. Probably no state in the union has made more material progress in all directions. Our population and wealth have nearly doubled and the natural increase in the future will necessarily be large, as the march of progress is ever onward.

But to be a great commonwealth we must be great in the advancement of our people as well as in the development of our natural resources. This can be done only by furnishing to everyone the most liberal opportunities for education, and for this purpose we must have proper facilities. The University needs the building mentioned. Can the State appropriate money for purposes more wisely than the erection of buildings to suitably accommodate the growth of an institution which is the pride of all its people?

The loss and damage to the main building by fire, referred to in the preceding section, proved to be much larger than was at first expected. All of the upper or third story was damaged to such an extent that it was necessary to rebuild it of new material. The services of F. G. McMillan, an experienced builder, were at once engaged to make the necessary repairs to have the building in readiness for occupancy at the beginning of another year's work. The cost of these repairs amounted to \$8,660.00. This loss was partially covered by an insurance of \$7,300.00. The damage to the library by removal, water and loss of books, was appraised at \$2,250, which was also covered by insurance.

SIDEWALKS AND CAMPUS EMBELLISHMENT.

The University of Minnesota is located in the central portion of the city of Minneapolis and has a campus of forty-five acres, which is bounded on three sides by public streets with one street extending across the campus, making in all some 6,000 square yards of street frontage, subject to pavement. The city of Minneapolis has ordered sidewalks built on street frontage in and about the campus. The cost of these sidewalks, if laid of asbestine stone, which is now generally used, will, at 80 cents per square yard, amount in the aggregate to \$4,800.

The campus, with the exception of that portion improved as a drill ground, lies in a state of nature. As a building site for a public institution it is probably the most picturesque in the Northwest, and should be embellished and beautified and put in keeping with the rapid advancement of the city. The regents, feeling that the time has come when this much needed and long delayed improvement must be made, have employed Mr. Cleveland, a landscape gardener, to lay out the grounds and to give an estimate of the cost of the work. This he estimates at \$6,000.

The regents most respectfully ask the legislature to make an appropriation of \$10,500 to cover the cost of these two improvements.

I am pained to announce that since the last report of the Board of Regents two of its honored members have been removed by death. General Sibley, its honored president, who had served on the board for upwards of twenty years, passed away, after a lingering illness, on the 18th day of February, 1891. In his death not only does the University lose one of its truest friends, but the State loses one of its most respected and valued citizens, and the nation one of its trusted defenders.

General Gordon E. Cole, a jurist of high standing and wide reputation and a member of the board who took great interest in the development and success of the University, especially in the department of law, to the success of which he contributed much, was stricken down by death while traveling in a foreign land in search of health.

CONDITION AND PROGRESS OF THE UNIVERSITY.

Under the able management of President Northrop and his corps of efficient professors and instructors, the past two years have been years of unprecedented progress and success in all

departments of the University. It is a matter of peculiar pleasure to note the large increase of students who come from all parts of the State. We are assured that a deeper interest is being taken in the welfare of the institution, and I am glad to say that it has been fully able to meet all the wants of students, not only in the classical, scientific, literary, engineering and mechanic arts, and agricultural departments, but in the department of medicine and law, so that to-day the University of Minnesota ranks third among the state institutions of learning in the country, Cornell and Michigan alone having a larger attendance. When we consider that the preparatory department of this institution was opened in 1868 with less than 40 students in attendance and practically no facilities with which to do educational work, and find an enrollment to-day of 1,500 students, with ample facilities in all departments for work, we feel that there is good reason for the people of the State to be proud of the success which the institution has attained.



MPLS. ENG. CO.

LAW BUILDING.
PILLSBURY HALL.

MAIN BUILDING.

MEDICAL COLLEGE
COLLEGE OF MECHANIC ARTS.

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REPORT OF THE PRESIDENT OF THE UNIVERSITY OF MINNESOTA.

To the Hon. J. S. Pillsbury, President Board of Regents :

DEAR SIR—I have the honor to submit the following biennial report of the State University for the academic years ending respectively July 31, 1891, and July 31, 1892.

The University of Minnesota has had a most satisfactory degree of prosperity during the past two years, 1890-92. The administration of its affairs by the Board of Regents has been wise and just ; and has met the hearty approval of all who are especially concerned in its work. The instruction has been faithfully given by able and conscientious faculties, thoroughly devoted to their work and in harmony among themselves ; and the students in the various departments of the University have manifested a spirit of fidelity to their work, loyalty to the University, and regard for the peace and order of the insitution and of the community in which they live, for which I cannot be too grateful.

The number of students in attendance has increased during the last two years nearly four hundred. The total number in attendance in the year 1889-90 was one thousand one. The number in attendance during the year 1890-91 was eleven hundred eighty-three, and during the year 1891-2 the number in attendance was thirteen hundred seventy-four.

THE COLLEGE OF SCIENCE, LITERATURE AND ARTS.

No portion of the University has had less done for it, during the eight years of my administration, than the classical department. This has been occasioned by the greater and more pressing necessities of other departments. The scientific department has been expanded in a most satisfactory manner, the most ample accommodations and equipment having been provided, the corps of teachers having been greatly enlarged and strengthened, and the course of study having been widened and extended. This was necessary because the provision for teaching the sciences was altogether inadequate. The special apparatus needed for the classical department is a library. I have in a former report pointed out the very great need of more books in order to keep up with the culture of the age. The legislature at its session in 1891 granted an annual appropriation of five thousand dollars for two years for the libraries of the departments of law, medicine, agriculture and the general University. Of this sum four thousand dollars have been appropriated to the

colleges of law and medicine. More than one thousand dollars have been appropriated to the purchase of scientific and technical works, and a like sum for works in history and literature for the University library. The remainder of the appropriation is all needed for enriching the general library and the library of the department of agriculture, without meeting, in any large degree, the special needs of the classical department. A University must have a good library whether it has anything else or not; and the classical department is in special need of increased facilities for study and investigation which only books can supply. I hope, therefore, that the legislature will, at its coming session, make further appropriations for the library, for which there is ample encouragement in the new life and vigor imparted to the University by the former appropriation.

Some additional provisions for instruction in the classical department will be necessary in the near future. It is important that opportunity be afforded the students to take the highest work the department can offer, in larger measure than at present. This can be secured by relieving the professors of some of the more elementary work and assigning this to an instructor to be engaged for the work.

Professor Jabez Brooks, after twenty years of faithful service to the University in the department of Greek, was granted leave of absence in 1890 for one year, and spent the year 1890-91 in Europe, engaged in study for the most part at Athens. Dr. Brooks, on his return, brought with him a considerable collection of material to illustrate the subject of archeology and he has since given most interesting instruction in that subject in connection with his work in Greek. It is desirable that the work in archeology be extended through two terms, but the demands on the department are so great that this cannot be done with the present teaching force.

Professor George E. MacLean, by permission of the board of regents, spent the year 1891-92 in Europe engaged in study. He expected to return to his work in September, 1892, but has been physically disabled by an accident, and will not return to the University till the beginning of the second term. His place was filled during his absence by Mrs. Susannah D. Fry, who has also kindly consented to continue her work during the first term of the coming year.

Professor John G. Moore of the department of German has been granted leave of absence for one year, which he will spend in Europe in study. Fraulein Marie Schön has been engaged as instructor in German, and will aid Assistant Professor Wilkin in carrying forward the work during the absence of Professor Moore.

Professor O. J. Breda, of the department of Scandinavian languages and literatures, has also been granted leave of absence for one year, which he will spend in study in Europe. His place will be filled by Professor J. A. Ness, who has been trained at Johns Hopkins University and at Luther College.

Professor Harry P. Judson, after seven years of most efficient service in the chair of history in this University, accepted in 1892 a position in the Chicago University. Professor Willis M. West, of the University of North Dakota, a graduate of the University of Minnesota and well known throughout State as a very successful teacher, has been called to this University as assistant professor of history, and will be in charge of the

work relinquished by Professor Judson. He will be assisted by Mr. Kendrick C. Babcock, who for several years has been the efficient assistant to Professor Judson in his work in history.

Professor W. W. Folwell, who has charge of the very important subject of political science, has for some years been the librarian of the University. In view of the importance of his chair and his own special qualifications for teaching, it has seemed best to relieve him of most of his duties as librarian, and to increase his work as a teacher. This has been done accordingly, to the entire acceptance of Professor Folwell, and he will hereafter give instruction in political science in the Junior class as well as in the Senior. The responsibility for the general management of the library will rest for the most part on Miss Lettie M. Crafts, who for seven years has been the first assistant librarian, and has demonstrated her entire fitness for the work.

In consequence of the large increase in the number of students in the University, nearly all of whom are required to take the course of study in mathematics, the work of Professor John F. Downey, of the chair of mathematics and astronomy, has increased so much as to render it necessary to employ an assistant in addition to the aid heretofore rendered him by Professor Hutchinson, associate professor of Greek and mathematics, and at times by the professor of military science. Professor J. P. Leavenworth, of Haverford College, Pa., has been elected assistant professor of mathematics and astronomy, with the expectation that he will ultimately become professor of astronomy, for which, he is by his training and experience well fitted, and that Professor Downey will then be relieved from the work of instruction in astronomy.

A transit house, a small stone building for the accommodation of a transit circle, astronomical clock, chronograph etc., was erected on the campus in 1891, and has been equipped with new and excellent instruments. A working observatory with an equatorial for instruction in astronomy is still needed, and ought to be provided at an early day. This working observatory can be joined to the transit house, and while not so serviceable for scientific investigation as a larger observatory with corresponding equipment would be, it would meet all our wants for teaching purposes. Should the State at any time desire to add a larger observatory for the special purpose of original observation in the interest of the advancement of knowledge, it would hardly be placed on the campus, but could be advantageously placed on the University farm, near the School of Agriculture.

THE COLLEGE OF ENGINEERING, METALLURGY AND MECHANIC ARTS.

In the spring of 1892, Professor William A. Pike, who had been connected with the College of Mechanic Arts for many years and had rendered valuable service in organizing and building up this college, resigned his chair, at the same time consenting to continue a part of his instruction during the coming year. He had been for several years successively director and dean of the college. In studying the interests of this college for the future, it seemed best to unite with it the school of mining and metallurgy. This has accordingly been done, and the new organization has been named the college of engineering, metallurgy and mechanic arts.

Professor Christopher W. Hall, who has long been most intimately connected with the scientific instruction in the University, has been elected dean of the college, and brings to the discharge of his duties a thorough knowledge of the needs of the institution and much practical wisdom. The courses of study in the college now embrace civil engineering, mechanical engineering, electrical engineering, architecture, mining, chemistry and metallurgy. Besides these there are two courses in practical mechanics, and a school of design, free-hand drawing and wood carving. Aside from the technical work, all regular students in this college are required to take one year in each of the following subjects: German, French, Chemistry and Physics.

Mr. William R. Appleby, of New York, was elected professor of mining and metallurgy in 1891, and entered upon the duties of his office in the autumn of that year. He has proved to be a valuable acquisition to the teaching force of the University. The work in mining and metallurgy has been organized by him in a very satisfactory manner, and has been successfully carried forward during the past year. Specifications have been prepared for an extensive ore-testing works, to contain all the machinery necessary to illustrate the various processes of testing ore, and thus enable the students to become acquainted by personal experience with the machinery used in the leading ore-dressing establishment of the West. The proposed building would cost five thousand dollars, and it has been hoped that this sum would be provided by the liberality of citizens of the State; but it has not yet been received.

The professorship of mechanical engineering was made vacant in 1891 by the resignation of Professor John H. Barr, who had accepted an appointment in Cornell University. The vacancy has not yet been filled, the duties belonging to the chair being divided among various members of the corps of instruction. It is important that a thoroughly competent person should be secured for this place before the opening of the work in the autumn of '93. It will be desirable to have some officer of the college visit some of the institutions of the country in which mechanical engineering is specially prominent as a part of the curriculum, not merely to see personally candidates for the vacant professorship, but also to study the methods of work in these institutions.

Mr. C. E. Wadsworth, a graduate of the class of 1890 in Cornell University, has been engaged as an instructor in civil engineering, with special reference to bridge-building and other structural work.

The work in electrical engineering has become of great importance on account of the new uses of electricity in various departments of human industry, and the probable discovery of many other uses to which it may be applied. Mr. George D. Shepardson, of Cornell University, was called to an instructorship in this University in 1891, and had charge of the instruction in electrical engineering during the following year. In the spring of 1892 he was elected professor of electrical engineering. His work has been very satisfactory, and the course in electrical engineering under his care, with the very excellent instruction in physics by Professor Frederick S. Jones, meets a very great want of the present time and offers excellent opportunity for special study to young men interested in electrical work, either theoretical or practical.

I regard the college of engineering, metallurgy and mechanic arts as destined to render most important service to the state of Minnesota; and I cannot doubt that a very prosperous future awaits it. The two subjects of mining and electricity are enough in themselves, in their present importance in this State, to draw many students to its laboratories; while the other subjects taught are so useful, and in some measure so necessary for the proper comprehension and mastery of mining and electricity, that the result cannot be other than a constantly growing demand for this college of practical science.

THE COLLEGE AND SCHOOL OF AGRICULTURE.

There have been expended most judiciously upon the agricultural department, all the revenues derived from the various grants of the general government for education in agriculture, together with a portion of the funds derived from the State. A new building, called Dairy Hall, was erected at the farm in 1891. It is believed to be unsurpassed in convenience of arrangement and completeness of equipment by any building in the United States erected for a similar purpose. The butter room is large, well-lighted, and supplied with all the necessary apparatus for instruction in butter-making. The cheese room is lighted by windows on three sides and is provided with ten cheese vats with the necessary accompanying utensils. Hot and cold water and steam are supplied to each of the cheese vats and to several convenient points in the butter room.

The building itself is a model in its exterior proportions as well as in its adaption to the purposes for which it was designed. The work done in this building the last year was of the very best character, the products being classified by experts as among the best made anywhere. The instruction given was so thorough and clear as to enable any intelligent student to master the art of butter-making and cheese-making. It was a most interesting sight to watch the progress of the work and note the order, and system which characterized it at all stages. As the dairy interest ought to be one of the most important in Minnesota, and as in years past there has been no greater waste in the State than in the production of poor butter, I regard the dairy work at the farm in connection with the school of agriculture as a most valuable addition to the course of study in the school; and I hope the results will appear, not merely in a large attendance at the school, but in the greatly improved quality of the butter made in the State. The work in butter-making has been and will continue to be in charge of Prof. T. L. Haecker, who has been called to the school of agriculture as an instructor in breeding and dairying, and has done excellent work both at the school and at numerous gatherings of farmers throughout the State during the past year.

The other work of the school of agriculture has been carried forward with increased success. One hundred four students were in attendance in the year 1890-91; and one hundred fifteen in the year 1891-92. The graduates of the school generally and the last year without an exception returned to the farm after their work at the school was completed. The school thus seems to be accomplishing what has long been desired—training for the farm and not away from it. It has undoubtedly set an example which not a few states are making haste to imitate.

Early in 1892 Professor Willet M. Hayes resigned the chair of agriculture to accept a similar position in North Dakota. His resignation was accepted and Professor Clinton D. Smith, the director of the experiment station, was placed in charge of the professorship of agriculture.

Professor Olof Schwartzkopff, of the chair of veterinary medicine and surgery, having asked to be relieved of the work of teaching in school of agriculture, his request was granted. It was further decided to abolish the veterinary department as a special department and to confine the teaching of veterinary science to the course in agriculture, the instruction to be given at the farm. Mr. Christopher Graham, a graduate of the University of Minnesota and of the veterinary department of the University of Pennsylvania, was elected instructor in veterinary science in the school of agriculture in 1892, and will enter upon his duties at the opening of the school in October. He will give or provide instruction also for such former students of the veterinary department as have completed their first year's work satisfactorily, as shown by the certificates of the professors of the medical college with whom work was required to be taken, the regents having voted to provide instruction for such students and to grant them degrees upon the completion of their work.

I am very much gratified with the work in agriculture as it has been carried on the past two years. The work is in charge of an able corps of teachers, and I believe that every one of them is in earnest and disposed to do all in his power for the promotion of agricultural education. Now that the University has each year a large number of young men seeking this education, the work goes forward with some good degree of inspiration and hope.

MILITARY SCIENCE.

The term of service of Lieut. Edwin F. Glenn as professor of military science in the University having expired by limitation, Lieut. George T. Morgan was, at the request of the board of regents, assigned by the war department to this chair in the University, and he has carried on the work in a satisfactory manner during the last year. At present, military science is a required study for all male students in the freshman class, and is open to male students in all classes. It is no longer required of ladies, physical culture having been substituted for it, and the ladies of the freshman class being required to take physical culture three times a week during the year. The change is in many respects a pleasant one for the ladies, and will be found to be advantageous in all respects.

THE EXPERIMENT STATION.

The work of the experiment station has been well managed, and the results have been valuable. A goodly number of bulletins have been issued and several more are ready for publication. The experiments have for the most part been judicious. There have, unfortunately, been some interruptions in experiment work occasioned by changes in the officers of the station. Though the difficulty of completing experiments that had been begun by the retiring officials has been experienced, a large amount of work has been done. Professor David N. Harper, of the chair of chemistry in the agricultural department, resigned in 1891, and was succeeded by Mr. Harry Snyder, of Cornell University. Professor

Harper had carried forward some interesting and valuable experiments, the final results of which are now ready to be published. Professor Snyder has been a most indefatigable and efficient chemist for the station since he entered upon his duties, and he has done a large amount of work in his laboratory in the interest of experiments. I believe that the station is at present wisely managed, that it is doing good work, and that it deserves the confidence of the regents and of the State.

THE DEPARTMENT OF LAW.

Although this department has been in operation only four years, it is already one of the most successful and satisfactory departments of the University. It has ample accommodations. Its library has been much enlarged, through the generous appropriation of the last legislature. Its scope of instruction has been extended, and its instructors and lecturers are more permanent than in the first years of its existence. The requirements for admission have been increased, and candidates who do not bring with them diplomas as evidence of sufficient scholarship are required to pass an entrance examination. The charge for tuition has been increased. Three courses of study are provided—a two years' day course, a three years' evening course, and a graduate course of one year. The officers of the department are willing to have the required course extended to three years whenever the regents see fit to order it. Fifty seven students registered in this college the first year of its existence, one hundred thirty-five the second year, one hundred seventy-six the third year, and two hundred forty-two the fourth year.

All distinctions in the rate of tuition between residents and non-residents of Minnesota have been abolished, residence in Minnesota being so easily acquired by the candidates.

THE MEDICAL DEPARTMENT.

The medical department is in better condition than ever before. Two years ago the course of lectures was lengthened from six months in a year to eight months. It was expected that the immediate effect of this would be to diminish somewhat the number of students. No such effect, however, has been produced. The number of students in the department has increased every year. In 1889-90 the number was one hundred twenty-seven; in 1890-91, one hundred ninety; in 1891-92, two hundred eleven.

Thomas G. Lee, of Harvard University, has been elected instructor in histology, embryology and bacteriology, with the expectation that he will be made a professor in due time.

A new medical college building on the University campus is nearly completed, the last legislature having made an appropriation for that purpose. The building is admirably designed for the work of the department, and is one of the most attractive looking buildings on the campus. It will be ready for use at the opening of the college year, October 5th. As no provision could be made in this building for the work in chemistry, histology and pharmacy, the regents have erected another building of a less permanent character, but large enough to meet the requirements and substantial enough to last at least ten years. This building cost sixty-five hundred dollars. The main medical building with its equipment cost sixty-five thousand dollars. The equipment of the department is now much more extensive than it has been heretofore, and a good

working library has also been secured. A fourth college has been added to the department—the college of pharmacy, for the establishment of which a special appropriation of five thousand dollars was made by the legislature. Professor Frederick J. Wulling, of Brooklyn, N. Y., was elected professor of pharmacy in 1892, and will enter upon his duties at the beginning of the college year in October. A dispensary is to be maintained in the medical building, the exact relation of which to the University is yet to be determined. Heretofore the University has had no responsibility for the dispensary. No special provision has yet been made for hospital privileges, as a means of instruction, except as the faculty may have been able to secure privileges in hospitals, members of whose staff of physicians are also members of the faculty of the University.

SPECIAL COURSE FOR TEACHERS.

Many teachers in the State who are unable to take the full course in the University have felt the need of higher culture for their work. To enable them to get such culture and also to meet the needs of prospective teachers who require some special training in the art of teaching, a two years course of study in the University has been offered to three classes of candidates. 1st. Graduates of State Normal Schools. 2d. Graduates of High Schools who have taught one year and hold a teacher's county certificate or its equivalent. 3d. Students of the University who are candidates for bachelor's degree. A year's work in pedagogy, including elementary psychology as applied to teaching, is combined with the regular studies of the University so as to make a full two-years' course of University work. When this work is completed the student will be entitled to a certificate which it is hoped will be made by law a satisfactory certificate for the teacher in any school in the State except where, as for the principals of high schools, the certificate of the State high school board is required. It is believed that this teachers' course, improved and extended as it doubtless will be when experience shall show the way, will be of great value to the State, and will in no way interfere with the work of the Normal school, but rather be helpful to that work. As nearly all the work of instruction in this course will be done by the regular teachers in the regular classes, but little additional expense will be occasioned by this special course the coming year. Pedagogy is the only subject that is to be extended beyond the limits required by the University curriculum. The regents desire to make the University as useful to the State as possible, and the present arrangement of the teachers course utilizes, in the most satisfactory way, the teaching force and equipment of the University, to supply a want that has been long felt in educational circles. Whatever additional instruction may be necessary in order to make the work in this course effective and adequate will undoubtedly be provided whenever the need shall appear.

THE LIBRARY.

There are in the general library 27,191 bound volumes. This does not include the special libraries of the colleges of law and of medicine, nor the library of the school of agriculture, nor the working libraries of various departments requiring books of a technical character to be constantly at hand for reference. These contain several thousand volumes in the aggregate. The number of volumes added to the general library by

purchase in 1880-91 was 693; in 1891-92, 1,370. The number of volumes received as private gifts in 1890-91 was 31; in 1891-92, 365. The number of public documents received in 1890-91 was 187; in 1891-92, 340. The magazines and reviews which for a few years had remained unbound and therefore practically out of use, have all been bound and are on the shelves for the use of the students. The recent purchases of books have been less strictly to satisfy the pressing needs of some department than former purchases, and the library has been enriched by works which all students need to be familiar with no matter what course of study they are pursuing. Growing in value as the library is, it needs larger as well as safer quarters in which to do the best work for the University.

A NEW BUILDING NEEDED.

On the 30th of April, 1892, in the evening, a fire broke out in the assembly room in the main building, while a company of several hundred students and instructors were assembled in the room. The fire made very rapid progress and in a few moments the platform and cupola of the building were in flames. The audience escaped without panic and without injury. The roof of the building, the whole of the assembly room and other portions of the highest story were destroyed and the ceilings of all the rooms in the main part of the building were either ruined or very much damaged by water. During the fire, the library was rapidly removed to the neighboring buildings but suffered damage to the extent of two thousand dollars, in the removal. The library had been removed in the same manner, at the time of the fire which occurred during the Christmas vacation of 1889. The fire at that time was in the forenoon and the removal of the library was accomplished with less damage than at the latter fire. These successive fires with the danger and loss to the library and the possible danger to life, proved conclusively two things: 1st, That the assembly room for the gathering of the whole body of students, at the top of the main building, could not be used for that purpose with entire safety, and 2d, that a fire proof building for the library was needed and that the present location of the library in the main building was not a safe one.

The regents, therefore, in considering what should be done in the exigency voted unanimously that the old assembly room should not again be used for the purpose of the daily assembly. They instructed the president to use the best room he could find for the purpose. Accordingly the Student's Christian Association building was used during the remainder of the year. Just before commencement two large rooms in the law building were thrown together and were used for the Alumni dinner, for the address by Judge Kerr to the law students, in commencement week. These rooms, now united as one, will be used for the daily assembly during the coming year. They are too small to accommodate half the students, but we can endure the inconvenience and discomfort incident to the situation for a single year, with the hope of relief thereafter. As a matter of administration merely there must be a place where the students as a body can assemble and where the president can meet them and communicate to them his wishes. To meet this necessity the regents at first decided to build an assembly room at once. But difficulties being encountered and the necessity of having a safe place for the library be-

ing strongly felt, it was finally decided to unite the two needs, an assembly room and a library in one building; to procure the necessary plans and specifications for such a building, and then to lay the matter before the legislature for such action as may be required. I cannot doubt that the legislature, feeling a just pride in the University and in the work it is doing for the State, will cheerfully grant whatever may be necessary to meet this most pressing want of the University. I do not dwell upon this subject further than to state the simple facts, presuming that the president of the board of regents will in his report deal more fully with the subject.

DEGREES CONFERRED.

Since the last report degrees have been conferred as follows:

	1891	1882
Bachelors of Arts.....	15	16
Bachelors of Science.....	14	19
Bachelors of Literature.....	17	16
Bachelors of Civil Engineering.....	3	2
Bachelors of Mechanical Engineering.....	1	2
Bachelors of Electrical Engineering.....	2	4
Bachelors of Laws.....	49	56
Doctors of Medicine.....	23	32
Doctors of Dental Surgery.....	7	4
Masters of Arts.....	1	1
Masters of Laws.....	...	5
Masters of Science.....	...	1
Doctor of Philosophy.....	...	1
Total.....	132	161

The names and residences of these graduates are given in appendix "A." The enrollment and classification of students during the two years covered by this report, 1890-91 and 1891-92 are given in appendix "B."

The whole number of degrees conferred by the University is 785. No honorary degrees have been conferred.

The expansion of the University, both in the number of colleges and the number of students has been so great in the last few years as necessarily to increase very considerably the expenditure for salaries. The individual salaries have not been largely increased, but the number of individuals drawing salaries has been largely increased. Not only instructors have had to be employed in greater number than formerly, but janitors for the buildings which have sprung up in these years have increased the number of salaried officers, as has also the organization of a full corps at the experiment station. The expense to the State, however, has not kept pace with the total expenditure. The receipts from fees in the colleges of medicine and law are sufficient to meet the requirements for salaries in these colleges, and it is believed that with the increase in the charge for tuition in these colleges the entire expense for law and medicine will be met by the receipts for tuition; in other words that these departments will be self-supporting. The expenses of the experiment station are met to a considerable extent by the \$15,000 received annually from the general government, under the provisions of the "Hatch Bill." The salaries of instructors in the college of agriculture and the college of engineering, metallurgy and mechanic arts are, to a large extent, provided for by the annual appropriation from the general government, under the provisions of the "Morrill Bill." It is, therefore, mainly for the general University

expenses, for the library, and for the college of science, literature and arts, that the state appropriations are required, and the demand upon the State has not kept pace with the increase in the total expenditures, nor has it been in proportion to the increase in the work done. With the completion of the necessary buildings asked for at this time, the necessity for the University's making largely increased demands on the resources of the State will cease, and with the necessity for them the demands will cease.

CYRUS NORTHROP.

APPENDIX "A."

At the Nineteenth Annual Commencement, held June 4, 1891, the following persons received degrees:

COLLEGE OF SCIENCE, LITERATURE AND ARTS.

FOR BACHELOR OF ARTS—15.

May Bestor, Minneapolis.	John Ernest Merrill, Minneapolis
Alden Joseph Blethen, Jr., Minneapolis.	Henry Stephen Morris, Sisseton Agency, S.D.
Charles William Bray, Excelsior.	Milton Dwight Purdy, White Hall, Ill.
Nora Frye, Elk River.	Theodore Geraldo Soares, Minneapolis.
Charles Elise Guthrie, Minneapolis.	Thompson Welliver Stout, Minneapolis.
Asa John Hammond, Lake City.	Curtiss Sweigle, Ortonville.
William Augustus Jackson, Minneapolis.	Albert Martin Webster, Hamline.
Harlan Edward Leach, Spring Valley.	

FOR BACHELOR OF SCIENCE—14.

Sigurd Johnson Boyum, DeLamere, N. D.	Christian Peterson Lommen, Spring Grove.
Charles Lincoln Chase, Hastings.	Frances Montgomery, St. Anthony Park.
Albert Arthur Dodge, Farmington.	Margaret Belle Morin, Albert Lea.
Edward Brown Gardiner, Minneapolis.	Ernest Arthur Nickerson, Elk River.
Dora May Guthrie, Minneapolis.	George Arthur Smith, Brown's Valley.
Frank Hanft, Minneapolis.	Albert Wallace Stacy, Washburn.
Theodore McFarlane Knappen, Minneapolis	Dodge, A. A.

FOR BACHELOR OF LITERATURE—17

Martha Virginia Ankeny, Minneapolis.	Joseph Oscar Jorgens, Grand Meadow.
Rose Ann Bebb, Minneapolis.	Mary Emma Kemp, Minneapolis.
Grace Chapman, Minneapolis.	Lillie May Martin, Minneapolis.
Benjamin Philip Chapple, Beldenville, Wis.	Homer Francis Pierson, Grand Meadow.
Arthur Bliss Church, Minneapolis.	Fred William Sardeson, Minneapolis.
George Archibald Clark, Minneapolis.	Edgar Daniel Sias, Pueblo, Col.
Myrtle Connor, Minneapolis.	Victor Alonzo Stearns, Duluth.
Nellie Malura Cross, Minneapolis.	Byron Harvey Timberlake, Minneapolis.
William Webb Harmon, Sauk Center.	

MASTER OF ARTS—1.

Joseph Brown Pike, B. A., U. of M. '90, Minneapolis.

COLLEGE OF MECHANIC ARTS.

FOR BACHELOR OF CIVIL ENGINEERING—3.

Walter Abram Chowen, Chowen.	Fred Maynard Mann, Minneapolis.
Fred Luke Douglass, Minneapolis.	

FOR BACHELOR OF MECHANICAL ENGINEERING—1.

Baxter Martin Aslakson, Willmar.

FOR BACHELOR OF ELECTRICAL ENGINEERING—2.

George Philip Huhn, Minneapolis.	Martin Hugh Gerry, Minneapolis.
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DEPARTMENT OF LAW.

FOR BACHELOR OF LAWS—49.

Edward Charles Bauman, Duluth.	William Augustus Krause, Paynesville.
George Wilbur Bestor, Minneapolis.	John Lindsay, Minneapolis.
William Compton Brown, Rochester.	Frederick Francis Lindsey, Minneapolis.
Ripley Bernard Brower, Minneapolis.	George Wilber Markham, St. Paul.
William Harrison Carey, Duluth.	William Judson Mayer, Manannah.
Linwood Christopher Carlton, Minneapolis.	Theodore Megaarden, Minneapolis.
Greely E. Carr, Argyle.	Albert Randall Moore, St. Paul.
John Martin Casey, Waverly.	Andrew Olson Ofsthun, Glenwood.
Martin Bradner Davidson, Austin.	Martin E. Remmen, Holden.
James D. Denégre, St. Paul.	Horace Randall Robinson, Minneapolis.
Gilbert Greene Dickerman, St. Paul.	Arthur R. Rogers, Minneapolis.
Douglas Andrews Fiske, Minneapolis.	Edward Wesley Ross, Minneapolis.
John Patrick Galbraith, St. Paul.	George Howard Selover, Minneapolis.
Harry Gilbert Gearhart, Duluth.	Siver Scrumgard, Devil's Lake, N. D.
Edwin Forbes Glenn (Lieut.), St. Paul.	Fred Pearson Smith, Le Sueur.
Eugene Harland Godfrey, Minneapolis.	William Snell, Minneapolis.
Charles Ernest Goodsell, Minneapolis.	John Sheppard Stone, St. Paul.
Charles Devereaux Gould, Minneapolis.	Thomas Snowden Tompkins, St. Paul.
James Edwin Gray, Lake City.	Ole John Vaule, Osakis.
Lawrence Gregerson, Geneva.	John Arvid Walgren, Minneapolis.
Charles Nathaniel Hamblin, Minneapolis.	Francis Lincoln Ware, Minneapolis.
George William Wallace Harden, LeRoy.	Thomas Joseph Wheeler, St. Paul.
John W. Hopp, Preston.	Henry George Wyvell, Breckenridge.
Alva Hunt, Montevideo.	George Ellsworth Young, Minneapolis.
Bjarne Eric Ingwaldson, Buxton, N. D.,	

DEPARTMENT OF MEDICINE.

FOR DOCTOR OF MEDICINE—23.

The College of Medicine and Surgery—19.

August Anderson, Center City.	Clarence Jennings Miner, Minneapolis.
Peter Halstensen Bakke, Kenyon.	Carl John Ringnell, Minneapolis.
Ole Kittleson Bergan, Sacred Heart.	John Thomas Rogers, St. Anthony Park.
Fred John Bohland, St. Paul.	Prosper Ernest Sheppard, Lake Side.
Harriet Beecher Conant, Minneapolis.	Martha Jane Smith, Yankton, S. D.
Julius C. Gilbertson, Minneapolis.	Allan Blanchard Stewart, Minneapolis.
Thomas C. Gibbs, Lake City.	Charles Alexander Van Slyke, St. Paul.
Julian Adolph Heilsher, Preston.	Hugo Evans Wangelin, Minneapolis.
Andrew E. Johnson, Glencoe	James Bartholomew White, Belle Plaine.
Alfred Lind, Winthrop.	

The College of Homœopathic Medicine and Surgery—4.

Warren Wesley Drought, St. Paul.	Alfonso Adelbert Roberts, Minneapolis.
Ellsworth Emerson King, Minneapolis.	Leon Adelbert Wait, Minneapolis.

FOR DOCTOR OF DENTAL SURGERY—7.

Henry Towne Breck, Minneapolis.	Louis Wesley Meckstroth, Minneapolis.
Ella Z. Chandler, Minneapolis.	Edwin George Riddell, Northfield.
Fred Augustus Lenox, Minneapolis.	Frank Chisholm Todd, Minneapolis.
Edgar Henry Marshall, Plainview.	

At the Twentieth Annual Commencement held June 2, 1892, the following persons received degrees:

THE COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

FOR BACHELOR OF ARTS.—16.

Clara Edith Bailey, Minneapolis.	Gottfrid Emanuel Hult, Scandia.
James Everett Bradford, Kedron.	George Lenfesty Keefer, St. Paul.
Benjamin Franklin Clarke, Rich Valley.	William Connor Leary, Minneapolis.
Rupert Carthalo Dewey, Minneapolis.	Andrew Nelson, Otisville.
Frank Herman Dittenhoefer, Minneapolis.	James Edward O'Brien, Lake City.
Ester Friedlander, Minneapolis.	Arthur Ranum, La Crosse, Wis.
John Wesley Graves, Spokane Falls, Wash.	Carlton Wilbert Smith, Howard.
Anna Loraine Guthrie, Minneapolis.	Stella Burger Stearns, Duluth.

FOR BACHELOR OF SCIENCE.—19.

George Kimball Belden, Minneapolis.	Evertt Buell Kirk, St. Paul.
Charles Peter Berkey, Farmington.	Edwin James Krafft, Minneapolis.
Rista Nimmons Best, Minneapolis.	Sarah Bird Lucy, Minneapolis.
John Grosvenor Cross, Rochester.	James Edward Madigan, Maple Lake.
Otte Knute Olof Folin, Stillwater.	Lyman Love Pierce, Stockton, N. Y.
George Douglas Head, Minneapolis.	George Cushing Sikes, Rugby, N. D.
Fred. Leopold Holtz, Minneapolis.	George Tunell, Albert Lea.
Elon Obed Huntington, Minneapolis.	Anthony Zeleny, Minneapolis.
Bradford Coryelle Hurd, Minneapolis.	John Zeleny, Minneapolis.
Paul Emerson Kenyon, Fargo, N. D.	

FOR BACHELOR OF LITERATURE.—16.

Clara Frances Baldwin, St. Paul.
 Charles Loren Chapple, Beldenville, Wis.
 Mary Moulton Cheney, St. Anthony Park.
 Arthur Eugene Covell, Minneapolis.
 John Albin Dahl, Minneapolis.
 Arthur Hugo Elftman, Prescott, Wis.
 John Frederick Farmer, Spring Valley.
 Charles Sumner Hale, Minneapolis.

Elizabeth Helen Mathes, Minneapolis.
 Minnie Agnes Rexford, Minneapolis.
 Louise Florence Robinson, Minneapolis.
 Mrs. Effie Ames Rochford, Minneapolis.
 Florence Julia Rose, Minneapolis.
 Eveline Van Winkle Sammis, Minneapolis.
 Helen Huntington Tombs, Grafton, N. D.
 Madeleine Wallin, Grand Forks, N. D.

FOR MASTER OF ARTE.—1.

Theodore Geraldo Soares, B. A., U. of M., '91, Minneapolis.

FOR MASTER OF SCIENCE.—1.

Fred. William Sardeson, B. S., U. of M., '91, Minneapolis.

FOR DOCTOR OF PHILOSOPHY.—1.

Henry Webb Brewster, B. A., U. of M., '87, St. Anthony Park.

COLLEGE OF ENGINEERING, METALLURGY AND THE
MECHANIC ARTS.

FOR BACHELOR OF CIVIL ENGINEERING.—2.

John Jay Hankenson, Glencoe.

Elvin Lydiard Higgins, Hutchinson.

FOR MECHANICAL ENGINEERING.—2.

Ralph Potter Felton, Minneapolis.

James Herbert Gill, Glyndon.

FOR BACHELOR OF ELECTRICAL ENGINEERING.—4.

Edward Paris Burch, Menomonie, Wis.
 William Henry Burtis, Oshkosh, Wis.

William Irving Gray, Lake City.
 Monroe Sherman Howard, Lake City.

FOR BACHELOR OF ARCHITECTURE.—2.

Leo Goodkind, St. Paul.

George Taylor Plowman, Minneapolis.

DEPARTMENT OF LAW.

FOR BACHELOR OF LAWS.—56.

Lester Howard Bentley, Montevideo.
 Eugene Nimmons Best, A. B., U. Mich., '89, Minneapolis.
 William Bennett Bebb, Minneapolis.
 Stillson Josiah Beardslee, Minneapolis.
 Charles Stewart Benson, Anoka.
 Sumner Bookwalter, Minneapolis.
 Charles Edward Boughton, Osage.
 Walter Reynolds Brown, Minneapolis.
 John Brown, New Richmond, Wis.
 Stiles Wilton Burr, St. Paul.
 William Francis Campbell, Richwood.
 Orrin Monroe Corwin, Lake City.
 John Frithiof Dahl, Minneapolis.
 Joseph Doerfler, Jr., Minneapolis.
 William Gilbert Drowley, Caledonia.
 George Sanford Eddy, Willmar.
 Calvin Albert Fleming, Lake Crystal.
 Jean A. Flittie, Mankato.
 Charles Rollin Fowler, Minneapolis.
 Harrison Earl Fryberger, A. B., U. M., '90, Minneapolis.
 Herschell Borroughs Fryberger, Duluth.
 Arthur Eugene Giddings, A. B., U. M., '89, Anoka.
 Oluf Gjerset, Montevideo.
 John Dean Goss, A. B., U. Wis., Ph. D., Columbia, '91, Hudson, Wis.
 Joseph Henry Hanlan, Wheeling, W. Va.
 James Lawrence Helm, Luverne.
 John Henry Hintermeister, St. Paul.
 Andrew Lewis Himle, Madison.
 Fred. Ezra Hobbs, B. L., U. M., '88, Minneapolis.

Alfred John Holmes, A. B., Gust. Adolphus, '90, Westedo.
 Edmond B. Kinney, Hudson, Wis.
 Burt Frank Lum, B. S., U. M., '90, Minneapolis.
 Livingston A. Lydiard, Minneapolis.
 Andrew Francis McCormick, Norwood.
 John Francis McLean, Graceville.
 Elvero Lewis McMillan, Minneapolis.
 Lane McGregor, Minneapolis.
 Harry H. Merrick, Minneapolis.
 Harry Moore, Minneapolis.
 Leonard J. Mosness, Minneapolis.
 Frank Pleasant Nantz, Minneapolis.
 Porter Joseph Neff, Bushnell, Ill.
 George Oakes, New Richland, Wis.
 Munro Horace Palmer, Tacoma, Wash.
 Henry Peterson, St. Paul Park.
 William Henry Harrison Pilgram, Minneapolis.
 Milton Dwight Purdy, A. B., U. of M., '91, Whitehall, Ill.
 Herbert Gilman Richardson, B. S., U. M., '90, Minneapolis.
 Volney G. Riefnsider, Oronoco.
 William Edwin Rheutan, Winona.
 Curtiss Sweigle, B. A., U. M., '91, Ortonville.
 Feter Grinde Swenson, Minneapolis.
 Carl Taylor, St. Paul.
 Charles Thompson, B. L., U. M., '88, Minneapolis.
 John Stewart Wangsness, Minneapolis.
 Ole Knute Wilson, B. S., U. M., '90, Gilchrist.

FOR MASTER OF LAWS.—5.

George W. Ackard, LL. B., Minneapolis.
 James Dennis Denegre, LL. B., St. Paul.
 John Patrick Galbraith, LL. B., St. Paul.

Charles Nathaniel Hamlin, LL. B., Minneapolis.
 Albert Randall Moore, LL. B., St. Paul.

DEPARTMENT OF MEDICINE.

FOR DOCTOR OF MEDICINE.—32.

College of Medicine and Surgery.—28.

Christopher August Anderson, Nicollet.	Eiliv Janson, Minneapolis.
Peter Andreas Aurnes, Minneapolis.	Ivar Janson, Minneapolis.
Peter Bakke, Minneapolis.	Samuel Markel Kirkwood, St. Paul.
Arthur Edwin Benjamin, Hutchinson.	Nelson Howard Marshall, Minneapolis.
George Alexander Binder, St. Paul.	Martin Lewis Mayland, Aspland.
Gustave Arthur Chilgren, St. Peter.	Frederick Voss Mohn, Minneapolis.
Harry Lee Darms, Stillwater.	George Wilber Moore, Minneapolis.
James Davidson, Minneapolis.	William Philip Rothwell, Graceville.
Emil Alexius Edlen, Minneapolis.	George Easton Senkler, St. Paul.
Joseph L. Edsall, Minneapolis.	William Sidney Smith, Waseca.
John Gustaf Erickson, Minneapolis.	Frank Chisholm Todd, Minneapolis.
Carl Abraham Fjelstad, Norway Lake.	Anders Albert Westeen, Minneapolis.
Eric Olonzo Giere, Rock Dell.	Osten Kristenson Winberg, Minneapolis.
Ferdinand Hilbert, Minnieska.	Henry Edward Wunder, Minneapolis.

College of Homeopathic Medicine and Surgery.—4.

Charles McHenry Cooper, Marion.	Alma Endora Morrison, Minneapolis.
Mary Alice Glidden Dight, M.D., Faribault,	Robert Ralph Rasmussen, Albert Lea.

FOR DOCTOR OF DENTAL SURGERY.—4.

Frank Wilson Force, Minneapolis.	Miland Austin Knapp, Hastings.
James William Paul.	Thomas Falvy Williams.

UNIVERSITY OF MINNESOTA.

ACCOUNTANT'S REPORT.

D. W. SPRAGUE, ACCOUNTANT.

Showing receipts and disbursements of the University of Minnesota for the fiscal years ending July 31, 1891 and July 31, 1892.

Financial statement of the University of Minnesota for the fiscal year commencing August 1, 1890 and ending July 31, 1891.

CURRENT EXPENSE.

Summary of amounts placed to the credit of the current expense account of the University during the fiscal year ending July 31, 1892.

Balance on hand at last report.....	\$12,710.79	
Annual appropriation.....	65,000.00	
From U. S. treasury—Hatch bill. (*).....	22,500.00	
From U. S. Treasury—Morrill bill..(**).....	31,000.00	
Interest on University bonds and land contracts.....	38,427.20	
Sales of Salt Spring Lands.....	8,918.77	
Sales—Experiment Station.....	3,819.11	
Insurance—Losses from fire.....	5,160.00	
University—Fees, etc.....	12,518.32	
		<u>\$200,054.19</u>

Amounts received from State Treasurer on Auditor's warrants:

	BILLS.	PAY ROLL.
June.....(***)	.....	\$8,559.53
July.....	\$1,760.11	.....
August.....	2,847.29	2,363.21
September.....	3,819.07	10,089.68
October.....	5,121.69	10,285.38
November.....	3,797.33	10,802.17
December.....	4,843.45	11,405.96
January.....	4,729.73	10,699.50
February.....	4,221.87	10,707.13
March.....	3,933.21	11,370.00
April.....	4,889.76	10,726.23
May.....	9,458.78	10,963.66
June.....	4,799.12	10,390.37
July.....	.....	2,756.40
	<u>\$54,221.41</u>	<u>\$121,119.22</u>
Total.....		\$175,340.63
Balance undrawn.....		24,713.56
		<u>\$200,054.19</u>

(*)The annual appropriation on account of "Hatch Bill" is \$15,000, made in quarterly payments of \$3,750 each. The last instalment of 1890 and the first installment of 1892 were received during the fiscal year 1891, making an excess of \$7,500 for this year, but a deficiency of \$3,750 for 1890 and 1892.

(**)The annual appropriation on account of the "Morrill Bill" commenced in 1890, and was \$15,000, increasing \$1,000 each year thereafter until it shall amount to \$25,000 per annum. The appropriation for 1890, \$15,000, was not received until the year 1891, which with the appropriation for 1891, \$16,000, made a total of \$31,000 received this year.

(***)There were no funds in the treasury to meet the June pay roll. It was provided for temporarily by Gov. Pillsbury, but paid in August and comes into the fiscal year.

GENERAL UNIVERSITY.

1891.		CURRENT EXPENSE.	No. voucher.	
June.		General University pay roll.....	948	\$830.00
Aug. 1.		E. B. Johnson, petty expenses.....	1	2.20
July 1.		Peter Christianson, work on campus ..	3	38.02
Aug. 1.		N. W. Telephone Exch. Co., telephone service June and July	11	6.00
July 30.		Tribune Job Printing Co., bill of printing	13	23.50
Aug. 1.		O. C. Gregg, advertising in Institute Annual No. 3.....	14	50.00
Aug. 1.		E. B. Johnson, advertising in State papers	16	300.00
Aug. 30.		General university pay roll.....	53	200 00
Aug. 30.		Peter Christianson, labor on campus	58	28 13
Aug. 15.		N. W. Telephone Exch. Co., service August and Sept.....	62	6.00
August.		E. B. Johnson, postage, gas and advertising.....	65	159.48
Sept. 30.		General University, September pay roll.....	110	850.00
Sept. 1.		Tribune Job Printing Co., bill of printing.....	111	8.25
Sept. 29.		E. B. Johnson, sundry petty expenses.....	112	21.95
Aug. 28.		Chas. D. Whitall & Co., 1 cash book.....	113	6.00
Sept. 29.		Wm. H. Yattaw, labor and sundry petty expenses.....	117	179.06
Sept. 30.		D. W. Sprague, petty bills	124	16.15
Sept. 30.		Lotta L. Black, labor, copying.....	125	5.00
Sept. 30.		Peter Christianson, work on campus.....	129	5.47
Oct. 1.		Maria L. Sanford, 50 lectures given at farmers isti., 1887-88.	170	438.76
Oct. 1.		John S. Pillsbury, dinners for board of regents.....	171	21.95
Oct. 31.		General University, October pay roll.....	189	840.00
Oct. 1.		Tribune Job Printing Co., bill of printing.....	199	84.25
Oct. 1.		N. W. Telephone Exchange Co., service	202	6.00
Oct. 14.		S. M. Emery, sundry petty expenses.....	204	9.92
Oct. 31.		R. B. Lees, 1 office desk.....	209	27.00
Oct. 31.		John A. Schlener Co., ink, pens and journal	233	1.95
Nov. 1.		Harrison & Smith, 2,000 jackets and scrap book	255	11.50
Oct. 24.		Minn. Title Insurance and Trust Co., insurance.....	277	102.45
Nov. 30.		General University, November pay roll.....	304	840.00
Nov. 1.		N. W. Telephone Exchange Co., services.....	309	6.00
Nov. 26.		Geo. C. Merrill, abstracts.....	310	14.25
Nov. 28.		Lotta L. Black, 30 hours writing.....	315	7.00
Nov. 29.		E. B. Johnson, gas and pres. Northrop's expenses at conv'n	320	108.84
Dec. 1.		B. N. Johnson, services.....	370	66.00
Dec. 31.		General University, December pay roll.....	399	840.00
Dec. 31.		E. B. Johnson, seals and office supplies.....	400	6.80
Jan. 1.		D. W. Sprague, 5 fares to St. Paul and return.....	402	2.50
Dec. 10.		John A. Schlener & Co., 1 pigeon hole case.....	404	6.00
Dec. 26.		Lotta L. Black, copying.....	424	5.50
Dec. 1.		Tribune Job Printing Co., miscellaneous printed matter. .	427	2.75
Jan. 31.		General University, January pay roll.....	492	900.00
Jan. 31.		Tribune Job Printing Co., miscellaneous printing.....	494	154.80
Feb. 2.		E. B. Johnson, taxes.....	496	48.00
Jan. 31.		The "Gopher," advertising.....	498	50.00
Jan. 2.		Wm. H. Yattaw, case for rubber stamps and express.....	504	4.85
Jan. 31.		R. B. Lees, labor and material.....	512	6.35
Jan. 31.		D. W. Sprague, petty bills.....	558	2.50
Feb. 13.		Knute Nelson, expenses at board meeting.....	560	10.70
Feb. 28.		General University, February pay roll.....	574	900.00
Feb. 25.		Wm. W. Folwell, services as librarian	575	250.00
Jan. 31.		Harrison & Smith, miscellaneous printing.....	577	2.50
Feb. 28.		J. Winslow, work in preparing expense list	578	8.00
Feb. 28.		E. B. Johnson, gas and petty expenses	585	56.35
Feb. 28.		D. W. Sprague, petty bills.....	587	3.75
Feb. 28.		Tribune Job Printing Co., miscellaneous printing	611	44.50
Feb. 14.		S. M. Emery, expenses to St. Anthony.....	623	4.96
Feb. 23.		S. B. Mattison, legislature to School of Agriculture.....	624	20.00
Feb. 20.		O. P. Stearns, expense attending meeting board of regents	634	6.00
Mar. 10.		Knute Nelson, expense attending meeting board of regents	635	28.00
Mar. 31.		General university, March pay-roll.....	643	900.00
Mar. 31.		John A. Schlener & Co., paper weight and rubber bands...	649	1.45
Mar. 30.		E. B. Johnson, electrotypes, stamps and petty expenses...	651	88.84
Feb. 28.		Harrison & Smith, vouchers and ruled slips	652	18.75
Mar. 31.		Gustav E. Stechert, books.....	658	26.25
Mar. 21.		W. F. Porter & Co., labor and material	660	3.00
Mar. 28.		S. M. Emery, railway fare and hotel bills.....	690	11.92
April 31.		General university, April pay-roll.....	702	900.00
April 25.		Jennie Winslow, work on expense list	705	5.00
April 30.		Tribune Job Printing Co., miscellaneous printing.....	706	49.00
April 30.		R. B. Lees, carpenter work and material.....	709	13.60
April 30.		E. B. Johnson, gas and petty expense.....	712	9.80
April 30.		Wm. W. Folwell, services as librarian.....	715	250.00
April 25.		Board, Dep't of school of agriculture, 100 dinners for leg-		
		islature	728	25.90
May 31.		General university, May pay-roll.....	785	900 00
May 30.		Jennie Winslow, labor on expense list.....	788	7.50
May 28.		Harrington Beard, invitations and env' for commencement	791	7.00
April 22.		M. A. Scovell, treasurer, for "Morrill Act".....	794	25.00
June 1.		E. B. Johnson, printing, office supplies and help.....	795	19.28
June 8.		Stephen Mahoney, tickets for alumni dinner.....	797	19.00
May 28.		Ricard & Gruman, 10 diplomas, filed "High School".....	798	2.50
May 27.		Tribune Job Printing Co., 9,000 catalogues.....	799	916.98

			No. voucher.	
May	5.	Tribune Job Print. Co., 100 reports, Finances of University	801	80.45
May	31.	Tribune Job Printing Co., miscellaneous printing.....	802	55.75
May	31.	D. W. Sprague, petty bills.....	812	5.85
June	1.	The "Gopher," advertising.....	848	25.00
June	1.	J. Wale, jr. & Co., 1 Union flag	849	42.50
June	30.	General university, June pay-roll.....	904	900.00
June	9.	E. B. Johnson, stamps, express and labor in office.....	905	157.54
June	20.	Jennie Winslow, work on expense list.....	907	9.75
June	28.	E. B. Johnson, petty sundry expenses.....	911	21.03
June	25.	N. W. Telephone Exc., services.....	914	6.00
June	30.	R. B. Lees, carpenter work.....	915	6.80
June	23.	Wm. H. Yattaw, labor and petty expenses	916	7.55
June	30.	Tribune Job Printing Co., miscellaneous printed matter..	919	33.50
June	5.	Minn. Brush Elec Co., use of 31 arc light, June 4, '91, Colos'm	923	23.25
July	7.	John A. Schlener & Co., paper and pencils	928	2.45
June	22.	Danz orchestra, music at commencement.....	930	115.00
July	31.	General university, July pay-roll.....	982	190.00
Total.....				\$14,570.77

COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

1891.

CURRENT EXPENSE.

June		S. L. & A. pay roll.....	948	\$3,910.00
July	25.	E. A. Cuzner, plants for greenhouse	4	5.25
July	28.	Gust Malmquist, plants for greenhouse	5	5.50
July	26.	W. F. Porter & Co., repairs on Pillsbury hall.....	6	42.38
July	1.	Warner Brothers, miscellaneous hardware.....	7	35.11
July	1.	Tribune Job Printing Co., printing blanks and records.....	8	19.00
June	30.	S. C. Vaughan, bill of seeds, bulbs and tools.....	9	5.80
Aug.	1.	T. W. Sardeson, work and expenses 15 days collecting fossils	10	34.85
Aug.	1.	N. W. Tel. Exchange Co., telephone service, June and July	11	6.00
Aug.	1.	C. W. Hall, freight, express and sundries.....	12	42.97
July	30.	Tribune Job Printing Company, bill of printing.....	13	37.75
Aug.	1.	E. B. Johnson, gas bill, postage and sundries ..	16	61.64
July	18.	Kenffel & Esser Co., blackboard dividers and rulers.....	17	31.95
Aug.	30.	College S. L. & A., pay roll.....	53	200.00
Aug.	30.	Wm. H. Yattaw, cleaning building, sundry petty expenses	54	205.06
Aug.	21.	W. F. Porter & Co., plumbing bill.....	55	18.00
June	21.	Minn. Brush Electric Co., lighting colliseum at commenc'm't	56	126.40
Aug.	24.	W. J. Johnson, wall paper and labor putting on same.....	57	72.20
Sept.	1.	Warner Brothers, paint, oil and glass	59	27.32
Sept.	1.	Trainor Brothers, mason work and material	60	22.50
Aug.	30.	Edward C. Cauvet, plumbing job and fittings	61	327.77
Aug.	15.	N. W. Telephone Exc. Co., service August and September	62	6.00
Sept.	1.	Priscilla C. Gilbert, services as librarian for July and Aug.	63	25.00
Aug.	1.	Warner Brothers, miscellaneous hardware.....	64	14.11
Aug.		E. B. Johnson, postage, gas and petty expenses.....	65	16.68
May	1.	Maria L. Sanford, expenses to Chicago and return.....	66	15.00
Aug.	28.	C. F. Sidener, analyses for geological department	67	24.50
Aug.	2.	James H. Bishop, deafening felt and cutting same.....	68	10.06
Aug.	4.	J. G. Swahn's & Sons, flower pots	69	7.90
Sept.	1.	E. L. Ames, wall paper and hanging same	70	10.97
Aug.	30.	R. B. Lees, carpenter work and material.....	71	78.09
Sept.	1.	Gustav E. Stechert, books.....	76	537.33
June	7.	William W. Folwell, petty library expenses.....	77	59.69
Sept.	1.	D. W. Sprague, petty expenses.....	78	9.77
Sept.	30.	College S. L. & A., September pay roll.....	110	4,560.00
Sept.	1.	Tribune Job Printing Co., bill of printing.....	111	34.50
Sept.	29.	E. B. Johnson, sundry petty expenses.....	112	82.13
Sept.	27.	Verdine Truesdell, fuel	114	266.00
Sept.	1.	M. Lara & Co., carpets and shades.....	115	77.13
Sept.	12.	Lintges Counells & Co., repairs on boiler and steel tubing.	116	142.94
Sept.	20.	W. F. Porter & Co., 8 Wadham grease cups.....	118	10.00
Sept.	8.	Aid Collins, policy on boiler....	119	150.00
Sept.	19.	N. W. Fuel Co., fuel	120	22.50
Sept.	26.	Warner Brothers, bill of hardware	121	36.42
Sept.	12.	Union School Furniture Co., standard crayons ..	122	12.50
Sept.	25.	James A. Dodge, work in laboratory	123	32.25
Oct.	1.	Trainor Brothers, materials and labor.....	126	62.75
Sept.	21.	Morris & Wilson, merchandise	127	51.50
Oct.	1.	A. D. Meads, services in department of chemistry....	128	50.00
Aug.	19.	Marine Biological Laboratory, alcoholic specimens.....	169	30.50
Oct.	31.	College S. L. & A., October pay roll	198	4,705.00
Oct.	1.	Tribune Job Printing Co., bill of printing.....	199	13.50
Oct.	3.	Henry H. Shufelt & Co., one barrel alcohol.....	200	28.70
Oct.	29.	Charles D. Whitall & Co., school supplies.....	201	9.42
Oct.	1.	N. W. Telephone Exchange Co., services	202	6.00
Oct.	1.	A. C. Bausman, cards	203	9.00
Oct.	31.	Lyman Eliel Drug Co., chemicals.....	205	7.80
Oct.	31.	E. B. Johnson, printing outfit, gas, etc.....	206	96.88
Oct.	10.	Glessner & Washburn, furniture	207	27.00
Nov.	1.	Edward C. Cauvet, plumbing.....	208	39.83
Oct.	31.	Warner Brothers, bill hardware	219	25.27

			No. voucher.	
Oct.	9.	Peter Christianson, labor in mineralogical laboratory.....	211	17.20
Oct.	31.	Wm. H. Yattaw, express labor and materials.....	212	83.72
Oct.	25.	Gull River Lumber Co, bill of lumber.....	213	12.50
Oct.	31.	W. K. Morrison & Co., carpenter tools.....	254	5.35
Sept.	30.	F. S. Martin, chemical supplies.....	263	22.20
Oct.	31.	Naylor & Co., plumbing goods.....	268	12.60
Sept.	9.	Minn. Office and School Fur. Co., two tables.....	271	12.00
Oct.	31.	Fred S. Jones, freight, express and petty expense.....	272	17.03
Oct.	10.	F. W. Sardeson, frogs and earth-worms.....	316	7.75
Nov.	1.	Gustav E. Stechert, library books and sundry petty exp..	276	308.23
Oct.	31.	N. W. Fuel Co., fuel.....	278	668.54
Nov.	1.	D. W. Sprague, sundry petty expenses.....	279	8.30
Nov.	30.	College S. L. and A., November pay roll.....	304	4,755.00
Dec.	1.	D. W. Sprague, petty bills.....	305	12.55
Nov.	1.	J. H. Hagen & Co., painting and material.....	306	11.10
Nov.	8.	Northwestern Star Oil Co., paint.....	307	18.00
Dec.	1.	Morris & Wilson, 1 case Hoyt Toilet.....	308	11.00
Nov.	1.	Northwestern Telephone Exchange Co., services.....	309	6.00
Nov.	29.	Wm. H. Yattaw, labor and sundry petty expenses.....	311	31.97
Nov.	19.	C. A. Ballard, work in herbarium.....	312	17.10
Nov.	8.	E. P. Sheldon, mounting and distributing herb specimens.	313	23.00
Nov.	1.	Littlefield & Moore, labor and material.....	314	7.61
Nov.	30.	Northwestern Fuel Co., fuel.....	317	555.47
Nov.	14.	Century Oil Co. 2 tanks and oil.....	319	16.75
Nov.	29.	E. B. Johnson, stamps, freight and lectures.....	320	150.93
Nov.	29.	E. B. Johnson, 2 months' salary.....	320	147.79
Nov.	30.	Gustav E. Stechert, subscription for magazines and papers	321	96.40
Oct.	23.	Warner Brothers, bill of miscellaneous hardware.....	322	12.14
Nov.	30.	Chas. D. Whitall & Co., books.....	326	51.65
Dec.	11.	J. P. Gray, bill of hardware.....	374	33.02
Nov.	12.	F. A. Fisher & Co., lumber and carpenter work.....	375	67.70
Dec.	31.	College S. L. and A., December pay roll.....	399	4,855.00
Dec.	31.	E. B. Johnson, gas and petty expenses.....	400	116.49
Dec.	31.	E. B. Johnson, 1 month's salary. K. C. Babcock.....	400	55.00
Dec.	31.	Wm. H. Yattaw, cleaning and gas fitting supplies.....	401	67.25
Dec.	1.	Naylor & Co., pipe and fittings.....	403	29.42
Dec.	27.	R. B. Lees, 42 clothes cupboards in basement.....	405	94.45
Sept.	22.	W. H. Moore, magazines and journals for school.....	406	424.62
Dec.	31.	Charles D. Whitall & Co., stationery and supplies.....	407	217.98
Nov.	30.	N. W. Fuel Co., fuel.....	408	874.68
Dec.	12.	Gustav E. Stechert, books.....	410	4.25
Nov.	4.	W. F. Porter & Co., 8 Jenks pump valves.....	418	6.00
Dec.	1.	Tribune Job Printing Co., miscellaneous printed matter..	427	18.00
Jan.	1.	C. W. Hall, travelling expenses.....	428	15.00
Dec.	31.	D. W. Sprague, petty bills.....	429	12.66
Sept.	29.	W. F. Porter & Co., 5 light feed oilers.....	430	7.05
Nov.	26.	Warner Bros., hardware.....	444	20.81
Nov.	29.	Tribune Job Print. Co., printing 300 lists and 500 envelopes	448	7.50
Nov.	30.	W. K. Morrison & Co., hardware.....	454	.72
Jan.	31.	College S. L. and A., January pay roll.....	492	4,826.00
Jan.	30.	Gustav E. Smith, books for library.....	493	351.32
Dec.	30.	Harrison & Smith, binding books for library.....	495	89.75
Feb.	2.	E. B. Johnson, water tax, freight tax and labor.....	496	82.75
Jan.	26.	Warner Bros., bill of hardware.....	497	21.83
Jan.	31.	N. W. Fuel Co., fuel.....	499	1,720.95
Jan.	31.	Chas. D. Whitall, books and supplies.....	500	13.30
Dec.	30.	C. W. Meneilley, oil, chimneys, matches, etc.....	501	14.13
Dec.	12.	Trainer Bros., labor and material.....	503	12.10
Jan.	2.	Wm. H. Yattaw, gas, postal cards, express.....	504	24.36
Jan.	16.	E. P. Sheldon, work in botanical department.....	505	39.75
Jan.	13.	C. A. Ballard, work in botanical department.....	506	23.40
Jan.	31.	R. B. Lees, carpenter work.....	507	7.50
Jan.	30.	Morris & Wilson, 1 case Hoyt toilet.....	508	11.00
Jan.	6.	Gustav E. Stechert, work on geology.....	509	21.00
Jan.	1.	C. S. Wentworth, valve and fittings.....	510	38.16
Jan.	31.	R. B. Lees, weatherstrip and labor putting on.....	511	18.25
Jan.	31.	R. B. Lees, labor and material.....	512	21.45
Jan.	31.	John A. Schlener & Co., stationery supplies.....	513	1.40
Jan.	1.	James W. Day, ice.....	515	33.82
Jan.	31.	D. W. Sprague, petty bills.....	558	9.09
Feb.	28.	College S. L. and A., February pay roll.....	574	4,825.00
Feb.	4.	Torrey Botanical Club, books.....	576	6.00
Feb.	6.	W. H. Moore, Bradstreet's Weekly.....	579	5.00
Feb.	7.	Wright, Barret & Stillwell, merchandise.....	580	33.96
Feb.	28.	Wm. H. Yattaw, labor and petty expenses.....	581	37.22
Mar.	1.	Warner Brothers, hardware.....	581½	6.72
Feb.	1.	M. Lara & Co., matting, webbing, etc.....	582	14.09
Feb.	28.	N. W. Fuel Co., fuel.....	583	1,505.50
Feb.	28.	R. B. Lees, labor and material.....	584	28.05
Feb.	28.	E. B. Johnson, gas and petty expenses.....	585	77.04
Feb.	20.	Henry H. Shufeldt & Co., 1 barrel alcohol.....	586	28.70
Feb.	28.	D. W. Sprague, petty bills.....	587	16.19
Feb.	16.	Milton Bradley, 1 premium card cutter.....	593	10.00
Feb.	1.	N. W. Telephone Exchange Co., services.....	609	12.00
Dec.	23.	Eimer & Amend, chemical supplies.....	612	10.00
Mar.	31.	College S. L. and A., March pay roll.....	643	4,925.00

			No. voucher.	
Mar. 14.	Morrison & Wilson, supplies...	644	10.25	
Mar. 31.	Peter Christianson, labor in geo. department...	645	22.80	
Mar. 2.	Glessner & Washburn, furniture.....	646	14.82	
Feb. 9.	Westinghouse, Church, Kerr & Co., oil.....	647	7.50	
Mar. 31.	N. W. Fuel Co., Fuel	648	1,455.69	
Mar. 30.	Warner Brothers, tools and dusters.....	650	13.93	
Mar. 30.	E. B. Johnson, express, print. and advertising	661	176.85	
Feb. 28.	Harrison & Smith, press register, slips and binding 31 vol..	652	28.00	
Feb. 16.	Barnard Bros. & Cope, 1 doz. arm chairs.....	653	17.75	
Mar. 1.	J. P. Gilmore, chemical supplies.....	654	6.45	
Mar. 30.	Wm. H. Yattaw, petty sundry expenses.....	655	38.16	
Mar. 31.	Tribune Job Printing Co., memo. and letter heads.....	657	11.00	
Mar. 31.	D. W. Sprague, petty bills.....	659	59.27	
Mar. 21.	W. F. Porter & Co., labor and material.....	660	3.00	
Mar. 31.	Chas. D. Whitall & Co., books for library.....	667	26.93	
April 30.	College S. L. and A., April pay roll.....	702	4,810.00	
April 28.	Warner Brothers, hardware.	703	5.11	
April 30.	Tribune Job Printing Co., miscellaneous printing.....	706	6.00	
May 1.	F. W. Sardeson, work in geological laboratory.	707	18.65	
Mar. 30.	W. H. Moore, books for library	708	18.95	
April 30.	Gustav E. Stechert, text books	710	173.13	
April 30.	Morris & Wilson, 1 case Hoyt toilet and law book ..	711	13.80	
April 30.	E. B. Johnson, printing, transportation.....	712	74.85	
April 13.	Eimer & Amend, chemical supplies.	713	23.25	
April 30.	Wm. H. Yattaw, labor around buildings	714	53.45	
Mar. 31.	Harrison & Smith, binding 126 vol.....	716	63.00	
May 1.	Peter Christianson, work in mineral laboratory.....	718	22.35	
April 30.	N. W. Fuel Co., Yough coal.....	719	695.18	
Dec. 6.	Century Oil Co., ½ barrel oil	720	7.50	
April 30.	Fred S. Jones, electrical supplies	721	12.95	
April 30.	D. W. Sprague, petty bills.....	722	6.02	
April 30.	Noyes, Bros. & Cutler, chemical supplies.....	723	1.10	
May 31.	College S. L. and A., May pay roll.....	785	4,750.00	
June 1.	William H. Yattaw, cleaning and petty expenses	786	28.26	
May 6.	Louis Dreka, diplomas.....	787	83.30	
April 30.	Harrison & Smith, binding library books.....	789	48.00	
April 30.	Bausch Lomb Optical Co., supplies.....	790	24.70	
May 17.	W. W. Folwell, services and petty expenses paid by him...	792	115.22	
Mar. 31.	Louise Montgomery, work in rhetorical department.....	793	15.00	
June 1.	E. B. Johnson, gas, etc	795	46.40	
June 5.	E. B. Johnson, ribbons for diplomas	769	7.50	
May 28.	Ricard & Gruman, diplomas filed	798	2.52	
May 31.	Tribune Job Printing Co., 200 admission cards.....	802	22.55	
May 29.	Henry F. Nachtrieb, chemical supplies and pocket voucher.	803	37.62	
May 22.	Eimer & Amend, chemical supplies.....	804	56.25	
May 31.	Gustav E. Stechert, library books	805	84.56	
May 30.	R. B. Lees, one cupboard and castors.....	806	15.75	
May 31.	William H. Yattaw, janitor work in May.....	807	60.00	
May 20.	Conway McMillan, supplies and petty expenses.....	808	30.60	
June 1.	Cody & Hineline, lighting platform in chapel, class day ex.	809	9.64	
May 19.	W. S. Nott Co., 100 feet of hose and nozzle..	810	19.30	
May 20.	N. W. Fuel Co., fuel.	811	97.14	
May 31.	D. W. Sprague, petty bills.....	812	5.40	
June 30.	College S. L. and A., June pay roll.....	904	4,566.67	
June 9.	E. B. Johnson, gas and expense s.	905	37.52	
Dec. 31.	W. W. Folwell, allowance on traveling ex. to Washington.	906	85.59	
June 5.	Edward C. Cauvett, plumber and fittings	908	14.11	
June 1.	G. Sidney Smith, books for library	909	24.00	
June 30.	Lintges, Connells & Co., hanging boilers new steam plant..	910	82.30	
June 28.	E. B. Johnson, expenses, car fare, etc ..	911	20.40	
May 28.	Lockwood, Upton & Co., putting up hangings and shafting	912	12.70	
June 8.	D. Appleton & Co., 1 vol. Annual Cyclo.....	913	6.00	
June 25.	N. W. Telephone Exchange Co., services.....	914	6.00	
June 23.	Wm. H. Yattaw, labor and petty expenses.....	916	33.80	
July 1.	Wm. H. Yattaw, expenses and labor.....	917	44.51	
June 25.	Wright, Barrett & Stillwell, bristol paper and dead felt...	918	9.16	
June 30.	Tribune Job Printing Co., miscellaneous printed matter..	919	64.75	
July 1.	Naylor & Co., pipe and fittings.....	920	19.98	
June 1.	Gustav E. Stechert, books	921	18.52	
June 1.	Warner Brothers, hardware.....	922	13.28	
June 13.	John Paulson, carpenter work in chemical labroatory....	924	16.30	
June 24.	W. S. Nott & Co., asbestos wicking and packing.....	926	5.05	
June 22.	E. B. Gardiner, ink, brush and 55½ draughting paper	927	11.70	
July 1.	C. W. Hall, petty bills.....	929	39.35	
June 29.	R. T. Cross, collecting minerals in Colorado.....	931	35.00	
July 1.	D. W. Sprague, petty bills.....	932	4.10	
July 31.	College S. L. and A., July pay roll.....	982	216.67	
Total.....			\$68,448.54	

SCHOOL OF AGRICULTURE.

		CURRENT EXPENSE.	No. voucher.	
June.		School of Agriculture, pay roll.....	948	240.00
Aug. 1.		E. B. Johnson, petty bills	1	2.75
July 22.		N. W. McLain, freight on desk for Agricultural school.....	22	1.89
Aug. 30.		School of Agriculture, pay roll.....	53	233.31
Aug. 15.		Gustav E. Stechert, books	72	11.00
Jan. 3.		Janney Brothers, labor and repairs on range.....	74	7.00
Sept. 1.		D. W. Sprague, petty expenses.....	78	2.80
Sept. 30.		School of Agriculture, September pay roll.	110	443.32
Sept. 30.		D. W. Sprague, petty bills.....	124	6.20
July 12.		Tribune Job Printing Co., envelopes and letter heads.....	130	6.50
Aug. 14.		Geo. W. Curtiss, books.....	131	6.60
Sept. 23.		Gustav E. Stechert, books	132	37.72
Aug. 26.		W. A. Henny, copy "Domestic Animals of British Isles"....	133	42.00
Sept. 24.		N. W. McLain, express.....	134	10.51
Sept. 29.		S. E. Olson & Co., linen.....	134	50.35
Sept. 22.		Farm, Stock and Home, advertising	136	25.00
Sept. 20.		H. W. Brewster, postage, express and sundries.....	137	26.29
Oct. 31.		School of Agriculture, October pay roll.....	198	643.32
Oct. 31.		Lyman Eliel Drug Co., drugs	205	.90
Oct. 28.		H. W. Brewster, cleaning building, organ and stool.....	214	128.26
Oct. 22.		Bovey, DeLaittre Lumber Co., bill of lumber.....	215	27.75
Oct. 30.		The Emery Manufacturing Co., 32 ft. pat. coal chute.....	216	18.00
Oct. 18.		Robert Clarke & Co., 36 Ele. Forestry	217	54.00
Oct. 23.		John A. Schlener & Co., stationery.....	218	5.78
Oct. 24.		A. Resberg, cleaning and repairing cistern at farm school.	219	7.00
Oct. 28.		John Le Vescounte, painting and repairing	220	21.00
Oct. 16.		American Book Co., 24 Phys. Geographies.....	221	19.20
Oct. 11.		R. J. Rickey, wall paper.....	222	53.97
Oct. 27.		Held & Grunhagen, paint and glass.....	223	13.96
Sept. 17.		Ginn & Co., school books.....	224	25.60
Oct. 16.		Orange Judd Co., Fruit Culturist and Manual of Ag'l.....	225	54.00
Oct. 9.		American Book Co., books.....	226	12.24
Oct. 14.		Ginn & Co., Intro. 72 Lockwood.....	227	72.58
Nov. 1.		S. E. Olson & Co., dishes, tools, etc.....	228	199.16
Oct. 22.		St. Paul Book and Sta. Co., arithmetics.....	229	12.05
Sept. 27.		Thos. K. Gray, paint.....	230	6.00
Oct. 9.		Henry Holt, text books.....	231	19.25
Oct. 28.		Sanford Niles, papers and magazines.....	232	12.50
Oct. 31.		John A. Schlener & Co., architect tools and materials....	233	12.19
Oct. 31.		W. W. Pendergast, subscription for papers.....	238	22.50
Oct. 27.		W. M. Hays, express, stamps and car fare.....	253	25.47
Oct. 20.		Peter Nelson, labor, grading	270	50.90
Oct. 16.		Henry E. Alvord, contribution in relation to "Morrill Act"	273	10.00
Oct. 31.		John Thompson, labor.....	274	.96
Nov. 1.		Gustav E. Stechert, sundry petty expenses.....	276	3.72
Oct. 31.		N. W. Fuel Co., fuel.....	278	242.85
Oct. 29.		W. M. Liggett, 16 cows	275	421.50
Nov. 30.		School agriculture, November pay-roll.....	304	896.81
Dec. 1.		D. W. Sprague, petty bills.....	305	.90
Oct. 31.		Curtis Print. Co., printing letter and note heads and env.	323	12.11
Nov. 24.		H. W. Brewster, express and supplies.....	324	18.94
Nov. 1.		Fred Shuman, labor in and about farm school.....	325	55.10
Nov. 30.		Chas. D. Whitall & Co., fixtures.....	326	5.50
Nov. 11.		Ginn & Co., 12 Gages Elem. Physics.....	328	12.10
Oct. 31.		James R. Taggart, one historical chat and easel.....	329	11.00
Nov. 28.		John Le Vescounte, work at school of agriculture.....	339	9.00
Nov. 1.		N. W. Agriculturist, advertising	331	25.00
Oct. 20.		Geo. W. Curtis, 39 copies "Cattle, Sheep and Swine".....	332	78.60
Nov. 14.		Manufacturers' Syndicate, jump seat buggy and shaft....	333	98.00
Oct. 18.		Agricultural College, Mich., 30 copies "Grasses".....	334	56.10
Nov. 14.		Dodson, Fisher & Brockman, harness, blankets, etc.....	335	59.53
Nov. 6.		St. Paul Book and Sta. Co., 12 Cutter's Phys. Pat. I.....	336	6.48
Nov. 30.		W. K. Morrison & Co., miscellaneous hardware.....	337	29.23
Nov. 17.		H. Weckworth, 4,000 lbs. bran.....	342	31.00
Nov. 19.		W. M. Hays, expenses and stamps	358	18.77
Nov. 1.		Tribune Job Co., printing letter heads and envelopes.....	364	6.00
Nov. 1.		Wyckoff, Seamans & Benedict, 1 No. 1 mimeograph.....	366	15.00
Nov. 27.		F. A. Davis, 1 Smith's physiology	371	5.00
Dec. 31.		School agriculture, December pay roll.....	399	906.77
Jan. 1.		D. W. Sprague, 50 fares to and from school of agriculture and exp	402	6.65
Dec. 10.		John A. Schlener & Co., pens and journal.....	404	2.90
Dec. 30.		Jessie B. Milliman, 3 copies list of farm books.....	409	6.00
Dec. 12.		Gustav E. Stechert, books	410	5.25
Dec. 13.		H. Weckworth, bran, meal and oil cake.....	411	75.00
Dec. 23.		W. M. Hays, petty expenses.....	412	6.80
Dec. 26.		John Thompson, assistance teaching cheese making.....	413	25.00
Dec. 26.		John Le Vescounte, assistance teaching butter making....	414	25.00
Nov. 27.		W. M. Hays, expenses and money paid for use of cows at station.....	415	82.32
Dec. 26.		August Hummel, labor.....	416	46.66
Nov. 6.		Cornish, Curtiss & Greene Co., supplies for experimental farm.....	417	63.74

		No. voucher.	
Dec. 1.	Harrison & Smith, printing miscellaneous matter	419	30.00
Dec. 1.	A. J. Drew, shelled corn and sacks	420	32.60
Nov. 26.	Cornish, Curtiss & Greene Co., supplies at agricultural station.....	421	18.75
Nov. 26.	Dept. public instruction, 1 Webster's unabridged diction'y,	422	7.00
Dec. 23.	A. J. Drew, 4,545 lbs. meal.....	423	50.25
Dec. 26.	Charles Kerr, labor November 21 to December 21.....	425	40.00
Dec. 22.	P. N. Collins, advertising.....	426	25.00
Dec. 31.	D. W. Sprague, petty bills.....	429	1.00
Dec. 18.	American Book Co., 50 new word analysis.....	431	15.75
Nov. 29.	W. K. Morrison & Co., bill hardware	432	9.67
Dec. 31.	John Le Vesconte, work at agricultural school.....	433	11.25
Dec. 31.	W. P. Hemenway, material and carpenter work.....	434	28.60
Dec. 9.	Pioneer Fuel Co., wood for fuel.....	435	66.31
Dec. 16.	Silver, Burdette & Co., readers.....	436	32.00
Dec. 16.	L. A. Ritter, 1 horse.....	437	150.00
Dec. 20.	W. W. Rawson & Co., 24 cop. "Success in Market Gardening"	438	18.00
Dec. 2.	The Breeder's Gazette, 2 volumes, bound.....	439	57.00
Dec. 17.	Henry Holt & Co., 50 Packard's Entomology.....	440	63.00
Dec. 29.	Held & Gunnhagen, bill of hardware.....	441	40.47
Jan. 31.	School of Agriculture, January pay roll.....	492	977.70
Jan. 31.	Tribune Job Printing Co., printing mem., letter-heads, etc.	494	10.75
Jan. 31.	John A. Schlener & Co., stationery supplies.....	513	7.60
Jan. 6.	J. A. Nye, labor.....	514	12.00
Jan. 28.	H. W. Brewster, freight, postage and sundry petty exp....	517	20.08
Jan. 21.	W. W. Pendergast, labor.....	518	7.23
Jan. 14.	St. Paul Book and Stationery Co., 20 civics.....	519	22.50
Nov. 27.	W. J. Button, 50 Song. Coll.....	520	25.00
Dec. 24.	Samuel B. Green, labor at farm school.....	621	47.00
Jan. 31.	Chas. Kerr, labor, caring for stock.....	522	30.00
Jan. 31.	John Le Vesconte, labor, assistant in dairy.....	523	12.50
Jan. 31.	John Thompson, labor, assistant in dairy.....	524	12.50
Jan. 27.	W. W. Pendergast, express.....	525	17.25
Jan. 21.	Cornish, Curtiss & Green, supplies in dairy department...	526	39.95
Nov. 24.	St. Paul Book and stationery Co., text books.....	527	178.65
Nov. 26.	F. S. Martin, repairs on heating apparatus at S. B.....	528	6.16
Jan. 12.	E. W. Stewart, 24 copies "Feeding animals,".....	529	24.00
Jan. 16.	H. Neckworth, 1,175 lbs. bran.....	530	9.98
Jan. 31.	August Hummel, labor in dairy department.....	531	20.00
Jan. 31.	Held & Gruenhagen, bill of hardware.....	532	11.10
Jan. 23.	North Western Fuel Co., fuel.....	536	218.09
Jan. 31.	D. W. Sprague, petty bills.....	558	4.00
Oct. 18.	St. Anthony Furniture Co., furniture.....	559	10.80
Dec. 18.	Eimer & Amnend, chemical supplies	561	83.49
Feb. 28.	School of Agriculture, February pay roll.....	574	799.32
Jan. 31.	Harrison & Smith, printing miscellaneous matter.....	577	11.00
Feb. 28.	North Western Fuel Co., fuel.....	583	230.58
Feb. 28.	D. W. Sprague, petty bills.....	587	2.14
Feb. 28.	W. M. Hays, salt, stamps and freight.....	588	9.51
Feb. 4.	D. H. Roe & Co., 1 Hor. cream separator.....	589	180.50
Feb. 6.	H. Wentworth, 2,000 pounds bran.....	590	17.50
Feb. 20.	A. J. Drew, corn meal and bran.....	591	45.84
Feb. 28.	W. W. Pendergast, 1 globe, postage and stamps.....	592	14.00
Feb. 27.	H. W. Brewster, glass, freight and express.....	594	13.34
Feb. 21.	St. Anthony Park Supply Co., labor about new building..	595	8.25
Jan. 31.	American Book Co., plant analysis	596	17.82
Feb. 14.	J. I. Case Implement Co., 1 two-seat cutter.....	597	18.00
Jan. 26.	Bovey, DeLaittre Lumber Co., lumber.....	598	27.30
Jan. 7.	Gustav E. Stechert, periodicals, magazines.....	599	94.44
Mar. 1.	August Hummel, labor in dairv, instructor 1 month.....	600	40.00
Mar. 1.	John Le Vesconte, labor in dairy, instructor 1 month.....	601	12.50
Mar. 1.	John Thompson, labor.....	602	12.50
Mar. 1.	Charles Kerr, labor as stock man.....	603	30.00
Feb. 28.	Tribune Job Printing Co., miscellaneous printing.....	611	9.50
Mar. 31.	School of Agriculture, March pay roll.....	643	1,358.36
Mar. 31.	North Western Fuel Co., fuel	648	379.26
Mar. 31.	John A. Schlener & Co., paper, pen and ink.....	649	5.55
Mar. 14.	Wright, Barrett & Stilwell, supplies.....	656	19.26
Mar. 31.	Tribune Job Print. Co., circulars, letter heads and class tkt	657	3.60
Mar. 21.	W. F. Porter & Co., labor and material.....	660	10.29
Mar. 27.	H. W. Brewster, song books, express.....	661	14.95
Jan. 31.	W. K. Morrison & Co., hardware	662	5.74
Mar. 9.	D. D. Merrill & Co., books for library.....	663	38.22
Feb. 27.	W. W. Rawson, journals	664	9.00
Mar. 4.	Gustav E. Stechert, books and magazines.....	665	156.86
Mar. 14.	Bausch & Lomb Optical Co., tools and supplies.....	666	230.53
Mar. 9.	Samuel B. Green, office work	688	9.00
April 30.	School agriculture, April pay roll.....	702	622.90
April 30.	Tribune Job Printing Co., miscellaneous printing.....	706	30.00
April 30.	N. W. Fuel Co., coal.....	719	12.90
April 30.	D. W. Sprague, petty bills.....	722	27.21
April 30.	Noyes Bros. & Cutler, chemical supplies.....	723	87.68
April 15.	Boutell Bros., 1 stove, pipe and zinc.....	724	12.00
April 22.	D. C. Martin, labor.....	725	12.25
April 28.	E. C. Stubbs, 6 Vol. National Draft Horse Registry	726	5.50
April 29.	W. H. Brewster, paint, box rent, stamps and express.....	727	17.35

		No. voucher.	
Mar. 31.	W. K. Morrison & Co., hardware.....	729	10.70
April 20.	Chas. Kerr, labor as herdsman for 1 $\frac{2}{3}$ months.	730	50.00
April 27.	A. L. Le Vesconte, labor and sundry petty expenses.....	731	8.19
April 11.	Minneapolis Tubular Well Co., rep'g and pump supplies...	732	23.20
April 29.	John Thompson, labor, instruction in dairy.....	733	18.75
April 1.	A. J. Drew, meal and ground feed.	733 $\frac{1}{2}$	78.78
April 8.	C. H. Congdon, 33 music lessons.....	734	99.00
Feb. 5.	Bausch & Lomb Optical Co., microscopic instruments..	735	28.05
April 14.	Samuel B. Green, express.....	736	10.85
Mar. 11.	W. S. Nott & Co., belting	737	10.44
Mar. 11.	Star Iron Works, engine supplies.....	738	15.80
April 30.	John Le Vesconte, labor and repairing.....	739	33.00
April 29.	Adam Lindig, oats	740	7.42
April 27.	D. N. Harper, freight.....	741	75.00
Jan. 15.	Phelps Well and Windmill Co., 1 windmill.....	742	49.50
Jan. 30.	Detroit Heat and Light Co., 1 200 ft. water wheel pump. ...	743	205.00
Mar. 27.	D. H. Roe & Co., test for milk	744	9.65
Jan. 29.	National Meter Co., 1 gas engine.....	745	452.50
April 23.	Lea Bros. & Co., 2 vol. National Medical Dictionary.....	746	14.00
Mar. 3.	Union Ry. Storage Co., brick and cement.....	751	6.65
April 13.	J. Kellar, hay	752	17.05
Mar. 31.	W. K. Morrison & Co., wire and rope.....	755	3.78
May 31.	School of Agriculture, May pay roll.....	785	559.99
May 6.	Louis Dreka, diplomas	787	115.00
June 5.	E. B. Johnson, sundries.	796	10.50
May 28.	Ricard & Gruman, 18 diplomas filed, "School Agricult'r.".	798	9.00
June 1.	Tribune Job Printing Co., 5,000 special catalogues	800	35.00
May 31.	D. W. Sprague, petty bills.....	812	4.42
May 31.	Gustav E. Stechert, text books.....	813	11.20
May 1.	Geo. Le Vesconte, labor setting gas machine and car fare.	814	32.80
May 19.	Husby & Skange, 2 cabinets made to order.....	815	260.00
May 25.	Held & Gruenhagen, bill of glass	816	5.25
April 15.	J. R. Walker M. D., medical services	817	27.35
May 26.	Goodyear Rubber Co., hose and fittings	818	11.20
May 1.	August Hummel, labor in dairy.....	819	6.60
April 17.	F. Lamson-Scribner, 180 species grasses.....	820	12.60
May 29.	John Thompson, work in laboratory.....	821	13.25
April 28.	W. M. Hays, sundry petty expenses	822	38.40
May 31.	Eimer & Amend, chemical supplies.....	824	536.67
May 8.	J. P. Gribben Lumber Co., bill of lumber.....	851	9.60
May 21.	D. N. Harper, cleaning laboratory, etc....	854	32.32
April 15.	Noyes Bros. & Cutler, laboratory supplies	855	19.41
May 23.	Nels Larson, labor, grading	894	344.50
June 30.	School of Agriculture, June pay roll.....	904	772.49
July 1.	D. W. Sprague, petty bills.....	932	8.20
June 29.	H. W. Brewster, postage and express.....	933	9.17
June 3.	M. E. Kelley & Co., elm trees	934	5.00
July 7.	John T. Lucas, labor and material.....	935	10.73
June 30.	Eimer & Amend, chemical supplies.....	936	714.74
July 31.	School of Agriculture, July pay roll.....	982	462.49
Total.....			\$18,425.19

VETERINARY DEPARTMENT.

CURRENT EXPENSE.

June	Veterinary department pay roll.	948	\$155.00
Aug. 1.	E. B. Johnson, petty bills	1	9.53
June 6.	Warren Bros., paint and hardware.....	18	28.27
June 28.	W. P. Hemenway, bill of lumber	34	20.00
June 19.	Gustav E. Stechert, books for library.	37	9.07
July 22.	A. Anderson, carpenter work on hospital	41	23.85
Aug 30.	Veterinary department pay roll	55	113.34
Sept. 1.	D. W. Sprague, petty expenses.....	78	2.13
July 24.	W. P. Hemenway, bill of lumber.....	78	54.96
Aug. 20.	Olaf Schwartzkopff, petty expenses.....	80	5.79
Sept. 30.	Veterinary department September pay roll.....	110	68.66
Oct. 31.	Veterinary department October pay roll	198	86.66
Oct. 9.	Charles D. Whitall & Co., supplies, etc.....	201	5.20
Nov. 1.	S. B. Loye & Sons, harness, supplies, etc.....	234	24.15
Oct. 1.	Held & Gruenhagen, bill of hardware.....	235	24.65
Oct. 31.	St. Anthony Park Supply Co., grain and labor.....	236	74.24
Oct. 31.	Noyes Bros. & Cutler, chemicals.....	237	48.42
Nov. 1.	D. W. Sprague, sundry petty bills.....	279	4.90
Nov. 30.	Veterinary department, November pay roll.....	304	89.02
Dec. 1.	D. W. Sprague, petty bills.....	305	5.65
Oct. 23.	Warner Bros., miscellaneous hardware	322	11.69
Nov. 7.	Noyes Bros. & Cutler, drugs.....	327	.50
Dec. 31.	Veterinary department, December pay roll	399	89.43
Dec. 31.	Charles D. Whitall & Co., papers, pencils and labels.....	407	3.60
Nov. 4.	W. F. Porter & Co., new fire pot and labor.....	418	75.00
Dec. 31.	D. W. Sprague, petty bills.....	429	9.42
Dec. 29.	Held & Gruenhagen, hardware.....	441	5.63
Nov. 29.	Tribune Job Print. Co., veterinary records and envelopes.	442	7.50

		No. voucher.	
Dec. 31.	Gustav E. Stechert, text books.....	443	25.95
Nov. 26.	Warner Bros., hardware.....	444	7.55
Dec. 15.	Olaf Schwartzkopff, sub. to Journal, stamps and expenses.....	445	9.70
Nov. 3.	G. F. Shaw, glass and oil finish.....	446	16.00
Nov. 13.	W. P. Hemenway, bill of lumber and labor.....	447	30.68
Nov. 26.	St. Anthony Park Supply Co., hay and grain.....	479	25.42
Jan. 30.	Veterinary department, January pay roll.....	492	92.66
Jan. 31.	N. W. Fuel Co., fuel.....	499	12.90
Dec. 25.	St. Anthony Park Supply Co., hay, grain, etc.....	533	49.84
Jan. 31.	Dr. F. Allen, railroad fare and lecture fee.....	534	27.50
Jan. 21.	A. N. Pomeroy, rent of barn.....	535	15.00
Jan. 31.	Pioneer Fuel Co., fuel.....	537	7.75
Jan. 31.	D. W. Sprague, petty bills.....	558	3.75
Feb. 28.	Veterinary department, February pay roll.....	574	86.66
Feb. 28.	D. W. Sprague, petty bills.....	587	4.25
Feb. 28.	Dr. F. Allen, railroad fare and lecture fee.....	604	27.50
Jan. 7.	Nicholas Hermes, 1 load hay.....	605	9.27
Jan. 26.	Adam Lindig, oats.....	606	12.65
Feb. 3.	St. Anthony Park Supply Co., grains and hay.....	607	16.60
Jan. 31.	Warner Bros., tools and rent of stove.....	608	5.44
Mar. 31.	Veterinary department, March pay roll.....	643	78.06
Mar. 31.	C. D. Whitall & Co., 1 hektograph and typewriting paper.....	667	5.00
Mar. 6.	L. Lindig, oats.....	668	10.78
Mar. 13.	Dr. F. Allen, car fare and lecture fee.....	669	27.10
July 26.	W. F. Porter & Co., radiator in veterinary department.....	670	20.00
Mar. 28.	F. W. Fletcher, 1 cow for experimental purposes.....	686	10.00
Apr. 30.	Veterinary department, April pay roll.....	702	101.66
Apr. 7.	Hausmann, McComb & Dunn, surgical instruments.....	747	30.55
Apr. 24.	E. W. Hendrickson, hay and oats.....	748	28.33
Apr. 2.	N. W. Scavenger Co., removing dead animals.....	749	21.00
Apr. 25.	Dr. F. Allen, lecture fee and expense.....	750	27.70
May 31.	Veterinary department, May pay roll.....	785	76.66
May 28.	Nicholas Hermes, hay.....	825	25.52
May 18.	E. W. Hendrickson, hay and oats.....	826	15.78
May 26.	Olaf Schwartzkopff, office and expense.....	827	21.30
June 30.	Veterinary department, June pay roll.....	904	76.66
July 7.	John A. Schlener Co., pencils and paper.....	928	1.90
June 10.	Noyes Bros. & Cutler, 1 horse skeleton.....	973	100.00
June 25.	Adam Lindig, oats.....	974	13.63
June 23.	E. W. Hendrickson, hay.....	975	13.32
July 31.	Veterinary department, July pay roll.....	982	76.66
Total.....			\$2,283.93

MILITARY TACTICS.

CURRENT EXPENSE.

June —.	Military tactics, pay roll.....	948	85.00
July 1.	Warner Brothers, miscellaneous hardware.....	7	10.00
Aug. 1.	Warner Brothers, miscellaneous hardware.....	64	5.18
Sept. 30.	Military tactics, September pay roll.....	110	85.00
Oct. 31.	Military tactics, October pay roll.....	198	50.00
Oct. 31.	Warner Brothers, hardware.....	210	18.16
Nov. 30.	Military tactics, November pay roll.....	305	120.00
Dec. 31.	Military tactics, December pay roll.....	399	85.00
Dec. 31.	E. B. Johnson, petty expenses.....	400	7.68
Dec. 31.	Wm. H. Yattaw, sundry petty bills.....	401	4.61
Dec. 27.	R. B. Lees, carpenter work and material.....	405	15.00
Jan. 31.	Military tactics, January pay roll.....	492	65.00
Feb. 28.	Military tactics, February pay roll.....	574	65.00
Mar. 31.	Military tactics, March pay roll.....	643	75.00
April 30.	Military tactics, April pay roll.....	702	75.00
April 30.	R. B. Lees, carpenter work and material.....	709	5.30
May 31.	Military tactics, May pay roll.....	785	75.00
June 1.	Wm. H. Yattaw, brooms, towels and scrubbing supplies.....	786	15.75
June 30.	Military tactics, June pay roll.....	904	75.00
June 30.	R. B. Lees, carpenter work and material.....	917	132.25
June 23.	Wm. H. Yattaw, sand paper, sash cord.....	916	2.25
July 22.	R. B. Lees, carpenter work and material.....	938	12.40
July 8.	C. A. Smith & Co., lumber.....	939	20.80
Total.....			\$1,104.38

MECHANIC ARTS.

CURRENT EXPENSE.

June	Mechanic Arts, pay roll.....	948	\$875.00
Aug. 1.	E. B. Johnson, petty bills.....	1	5.36
July 1.	Tribune Job Printing Co., printing mems. of standing.....	8	3.00
July 9.	Tribune Job Print. Co., envelopes, letter heads and circ'ls.....	38	15.00
June 24.	Bovey, DeLaitre Lumber Co., bill of lumber.....	39	7.16
July 1.	Lockwood, Upton & Co., 1 hanger and labor on same.....	40	10.25
July 1.	C. H. Whipps, salary for June.....	42	70.00
Aug. 30.	Wm. H. Yattaw, cleaning building, sundry petty expenses.....	54	58.50

		No. voucher.	
Aug.	E. B. Johnson, petty expenses.....	65	.18
Sept. 1.	Minneapolis Stamp Co., brass numbers.....	91	6.00
Aug. 27.	Moffett & Thurston, printing circulars.....	92	14.00
Aug. 30.	John H. Barr, freight, drayage and express.....	93	8.74
May 30.	Browne & Sharp Mfg. Co., 1 No. 3 cutter and Reamer grind.	94	234.00
Sept. 30.	Mechanic Arts, September pay roll.....	110	1,125.00
Sept. 29.	E. B. Johnson, petty expenses.....	112	.36
Sept. 29.	Wm. H. Yattaw, petty expense.....	117	3.00
Sept. 26.	Warner Bros., bill of hardware.....	121	21.65
Sept. 30.	D. W. Sprague, petty bills.....	124	13.08
Sept. 1.	A. C. & C. F. Peters, artist supplies.....	138	16.54
Sept. 29.	N. C. Hill, freight and drayage.....	139	22.40
Sept. 6.	Janney, Semple & Co., bill of iron.....	140	17.34
Aug. 9.	John A. Schlimer & Co., 1 calculating inst.....	141	30.00
Aug. 26.	N. E. Furniture Co., 1 desk.....	142	12.50
Sept. 22.	Simonson Bros. Mfg. Co., lumber.....	143	49.50
Sept. 1.	Browne & Sharp Mfg. Co., 1 milling machine and tools...	144	385.72
Sept. 4.	Bovey DeLaitre Lumber Co., bill of lumber.....	145	38.30
Sept. 8.	J. R. Clark Co., bill of lumber.....	146	5.73
Sept. 30.	Frank A. Johnson.....	147	22.24
Sept. 27.	Naylor & Co., 75 lbs. waste.....	148	7.50
Sept. 26.	Wm. Donaldson & Co., 1 case.....	149	14.75
Sept. 1.	A. C. & C. F. Peters, casts, easels and freight.....	168	59.45
Oct. 31.	Mechanic Arts, October pay roll.....	198	1,125.00
Oct. 31.	Lyman Eliel Drug Co., chemicals.....	205	3.10
Oct. 31.	E. B. Johnson, petty expense.....	206	.54
Nov. 1.	Edward C. Cauvett, plumbing.....	208	11.98
Oct. 31.	John A. Schlimer & Co., architect materials.....	233	6.40
Oct. 31.	W. K. Morrison & Co., carpenter tools.....	254	25.91
Nov. 1.	Harrison & Smith, letter heads, env., reports and slips.....	255	17.50
Sept. 30.	Walgrave & Mather, coal.....	256	14.00
Oct. 3.	Eagle Iron Works, 1 injector.....	257	15.00
Oct. 31.	Naylor & Co., bill of plumbing goods.....	268	6.13
Oct. 2.	N. W. Star Oil Co., oil.....	269	5.76
Nov. 1.	D. W. Sprague, sundry petty bills.....	279	4.75
Nov. 30.	Mechanic Arts, November pay roll.....	304	1,125.00
Nov. 8.	N. W. Star Oil Co., sperm and lard oil.....	207	4.45
Nov. 29.	E. B. Johnson, petty expenses.....	320	.72
Nov. 30.	Gustav E. Stechert, binders for journals.....	321	12.15
Nov. 18.	Naylor & Co., tools.....	338	9.69
Nov. 21.	Am. Society of Mechan, Eng., bind. 7 vol. Transactions....	339	8.75
Nov. 29.	Wm. Donaldson & Co., 1 desk.....	340	31.00
Nov. 10.	Chas. H. Besley & Co., 1 Hawkins register.....	341	10.00
Oct. 31.	W. F. Porter & Co., 1 coil in Mechanic building.....	343	6.00
Nov. 29.	Wm. A. Pike, cover for table in reading room and express.	344	5.21
Nov. 15.	Machinist's Supply Co., tools.....	345	66.56
Nov. 26.	John H. Bar, postage stamps and express.....	346	7.90
Oct. 29.	Crosby Steam Gauge and Valve Co., indicator and supplies	347	50.00
Nov. 1.	Janney Semple & Co., bill of iron.....	348	18.73
Nov. 12.	F. A. Fisher & Co., lumber and carpenter work.....	375	78.30
Dec. 31.	Mechanic Arts, December pay roll.....	399	1,125.00
Dec. 31.	E. B. Johnson, petty expense.....	400	.54
Dec. 31.	Wm. E. Yattaw, washing, ironing and blacksmithing.....	301	2.50
Dec. 31.	D. W. Sprague, petty bills.....	429	9.18
Dec. 1.	Bullock & Crenshaw, thermometers.....	450	11.60
Dec. 4.	Crosby Steam Gauge and Valve Co., gauge and valves....	451	15.40
Dec. 1.	Cedar Lake Fuel Co., one ton coal.....	452	7.00
Dec. 16.	Machinists' Supply Co., tools.....	453	6.85
Nov. 30.	W. K. Morrison & Co., bill of hardware.....	454	18.20
Jan. 31.	Mechanic Arts, January pay roll.....	492	1,125.00
Feb. 2.	E. B. Johnson, petty bills.....	496	1.44
Jan. 2.	Wm. H. Yattaw, packing and ferrules.....	504	2.00
Jan. 23.	Bradstreet Thurber & Co., 38 wood stools.....	516	34.20
Jan. 9.	Naylor & Co., plumbing goods.....	538	8.69
Jan. 2.	A. C. and C. F. Peters, artists' supplies.....	539	37.43
Jan. 31.	W. K. Morrison & Co., bill of hardware.....	540	11.15
Jan. 10.	Moffett & Thurston, letter heads and note heads.....	541	8.60
Jan. 19.	Bovey De Laitre Lumber Co., lumber.....	543	21.50
Jan. 31.	D. W. Sprague, petty bills.....	558	8.50
Dec. 15.	W. K. Morrison & Co., hardware and tools.....	562	73.99
Feb. 28.	Mechanic Arts, February pay roll.....	574	1,125.00
Feb. 28.	Wm. H. Yattaw, petty expense.....	581	1.90
Feb. 28.	E. B. Johnson, gas, petty expenses.....	585	16.96
Feb. 28.	D. W. Sprague, petty bills.....	587	21.97
Feb. 1.	John H. Barr, express, freight and cartage.....	610	8.47
Feb. 16.	John Wiley & Son, chemical supplies.....	613	38.20
Feb. 2.	Littlefield & Moore, labor and material.....	614	5.75
Mar. 31.	Mechanic Arts, March pay roll.....	643	1,125.00
Mar. 30.	E. B. Johnson, express.....	651	2.56
Mar. 1.	J. P. Gilmore, chemical supplies.....	654	2.00
Mar. 31.	Tribune Job Printing Co., miscellaneous printing.....	657	8.00
Mar. 21.	W. F. Porter & Co., plumbing goods.....	660	4.13
Mar. 4.	Gustav E. Stechert, books and magazines.....	665	55.96
Mar. 28.	Trainor Bros., labor and material.....	671	23.00
Mar. 18.	N. W. Fuel Co., coke.....	674	9.00
Mar. 28.	Lyman-Eliel Drug Co., tools and chemicals.....	676	9.40

		No. voucher.	
April 30.	Mechanic Arts, April pay-roll.....	702	\$1,125.00
April 28.	Warner Brothers, bill of hardware	703	7.25
April 30.	Tribune Job Printing Co., 200 gum labels....	706	1.50
April 30.	Gustav E. Stechert, text books	710	60.70
April 30.	E. B. Johnson, gas.....	712	2.72
April 30.	D. W. Sprague, petty bills.....	722	8.55
April 20.	Lyman-Eliel Drug Co., 15 lbs mercury.....	753	12.75
Mar. 24.	Lockwood, Upton & Co., shop iron	754	44.51
Mar. 31.	W. K. Morrison & Co., door trimmings, iron and nails.....	755	8.55
April 1.	Cook & Hyde Stove Co., labor, cutting material.....	756	10.50
May 31.	Mechanic Arts, May pay-roll.. ..	785	1,125.00
May 6.	Louis Dreka, diplomas.....	787	9.65
June 1.	E. B. Johnson, gas... ..	795	1.28
June 5.	E. B. Johnson, ribbon for diplomas.....	796	.90
May 28.	Ricard & Gruman, diplomas filled.....	798	3.00
May 2.	Fimer & Amend, drugs.....	804	4.45
May 31.	D. W. Sprague, petty bills.....	872	13.22
May 30.	Naylor & Co., plumbing fittings.....	832	20.45
May 4.	Harris Bros., 1 steel crank.....	833	14.00
May 1.	G. N. Saegmuller, 1 chronograph, 1 transit circle	834	1,597.50
May 5.	J. E. Ingham, 1 solar compass	835	65.00
May 5.	W. & L. E. Gurley, electrical supplies.....	836	170.00
March 5.	E. Howard Watch & Clock Co., astronomical regulator	837	375.00
June 30.	Mechanic Arts, June pay-roll.....	904	1,110.00
June 9.	E. B. Johnson, type and twine.....	905	.64
June 28.	E. B. Johnson, express.....	911	.85
July 1.	D. W. Sprague, petty bills	932	1.55
June 8.	Technology Archi. Review Journals.....	940	6.40
May 30.	W. R. Hoag, 1 steel tape and protractors.....	941	8.60
June 4.	Twin City Iron Works, labor and material.....	942	33.42
Total.....			\$16,650.70

GEOLOGICAL SURVEY.

CURRENT EXPENSE.

June....	Geological survey, pay roll.....	948	\$275.00
Aug. 1.	N. H. Winchell, hay, freight, pocket voucher.....	2	30.37
July 30.	Louis A. Ogard, salary for June and July	15	50.00
Aug. 30.	Geological survey, pay roll.....	53	275.00
Aug. 29.	N. H. Winchell, paper trays and pocket vouchers	73	25.31
Sept. 30.	Geological survey, September pay roll.....	110	315.00
Oct. 31.	Geological survey, October pay roll... ..	198	315.00
Oct. 1.	N. H. Winchell, foreign translations, express and dray....	266	30.29
Aug. 28.	Louis A. Ogard, draughting maps.. ..	267	90.00
Nov. 30.	Geological survey, November pay roll.....	304	315.00
Dec. 1.	D. W. Spragne, petty bills.....	305	1.67
Dec. 31.	Geological survey, December pay roll.. ..	399	375.00
Dec. 16.	N. H. Winchell, express pocket voucher, work on survey..	455	76.71
Jan. 31.	Geological survey, January pay roll.....	492	875.00
Feb. 28.	Geological survey, February pay roll	574	375.00
Mar. 31.	Geological survey, March pay roll.....	643	375.00
Mar. 10.	N. H. Winchell, pocket vouchers and express.....	672	66.75
April 30.	Geological survey, April pay roll.....	702	375.00
April 23.	Kennedy Bros., fishing tackle.....	717	39.50
May 2.	N. H. Winchell, pocket vouchers.....	757	49.51
May 31.	Geological survey, May pay roll.....	785	375.00
May 31.	Tribune Job Printing Co., abstracts and briefs.....	802	58.50
May 29.	Henry F. Nachtrieb, chemical supplies.....	803	6.85
May 31.	D. W. Sprague, petty bills.....	812	3.50
May 21.	Houghton, Mifflin & Co., 2 volumes "Butterflies"	828	75.00
May 29.	Kennedy Bros., ammunition, etc.....	829	50.20
May 27.	Kennedy Bros., revolver, rifle, boots and coat.....	830	43.70
June 8.	N. H. Winchell, freight, express and pocket voucher	831	38.68
June 30.	Geological survey, June pay roll....	904	400.00
June 5.	Walter S. Booth, supplies for geological department.....	925	6.00
July 1.	D. W. Sprague, petty bills.....	932	7.10
June 22.	Eppling Brothers, services in field party.....	943	79.98
June 1.	Houghton, Mifflin & Co., volume III, "Butterflies".....	944	24.75
July 1.	N. H. Winchell, stamps, labor and pocket voucher.....	945	37.27
July 13.	N. H. Winchell, postage, express and pocket voucher....	972	118.30
July 31.	Geological survey, July pay roll.....	982	300.00
Total.....			\$5,530.84

LAW DEPARTMENT.

CURRENT EXPENSE.

June —	Law Department, pay roll, current expense.....	948	\$250.00
July 30.	Tribune Job Printing Co, bill of printing.....	13	6.75
Aug. 30.	Wm. H. Yattaw, cleaning building, sundry petty exp.....	54	10.50
Sept. 30.	Law Department, September pay roll.....	110	460.00
Sept. 29.	E. B. Johnson, petty expenses.....	112	.18
Sept. 29.	Wm. H. Yattaw, labor	117	3.00

		No. voucher.	
Sept. 1.	The Boston Book Co., adv. of law school.....	150	\$18.09
Sept. 22.	West Publishing Co., books	151	155.10
Oct. 31.	Law Department, October pay roll	198	490.00
Oct. 31.	E. B. Johnson, petty expenses.....	206	7.38
Oct. 31.	Wm. H. Yattaw, labor and materials.....	212	1.25
Oct. 11.	West Publishing Co., books for law library	259	41.25
Sept. 9.	Minn. Office and School Furniture Co., 1 swing chair.....	271	5.00
Nov. 30.	Law Department, November pay roll.....	304	402.50
Nov. 29.	E. B. Johnson, setting type and office supplies.....	320	17.64
Oct. 29.	West Publishing Co., law books.....	349	79.00
Dec. 31.	Law Department, December pay roll.....	399	451.00
Dec. 31.	E. B. Johnson, rubber stamps, printing and freight.....	400	28.26
Dec. 31.	Wm. H. Yattaw, cleaning law building	401	1.88
Jan. 31.	Law Department, January pay roll.....	492	411.00
Jan. 31.	Tribune Job Print. Co., print. let. h'ds, circulars and rec'ts	494	8.00
Feb. 2.	E. B. Johnson, gas and sundry petty exp.....	496	18.72
Jan. 2.	Wm. H. Yattaw, petty expense	504	.60
Feb. 28.	Law Department, February pay roll.....	574	485.50
Feb. 28.	Wm. H. Yattaw, petty expense	581	.37
Feb. 28.	E. B. Johnson, printing and material	585	16.96
Oct. 1.	Little, Brown & Co., books	615	16.75
Oct. 31.	Lawyers' Co-operative Pub. Co., books.....	616	5.00
Jan. 13.	Folds, Griffith and Colver, 16 shades.....	617	25.60
Mar. 31.	Law Department, March pay roll.....	643	492.00
Mar. 30.	E. B. Johnson, gas and petty expense.....	651	18.88
April 30.	Law Department, April pay roll.....	702	513.50
April 30.	E. B. Johnson, gas and petty expense.....	712	16.16
April 30.	Wm. H. Yattaw, labor and petty expense.....	714	4.38
May 34.	Law Department, May pay roll.....	785	611.50
June 1.	Wm. H. Yattaw, sundry petty expenses.....	786	7.00
May 6.	Louis Dreka, diplomas.....	787	83.30
June 1.	E. B. Johnson, gas, etc.....	795	16.64
June 5.	E. B. Johnson, ribbon for diplomas.....	796	7.50
May 28.	Ricard & Gruman, diplomas filled.....	798	25.50
June 30.	Law Department, June pay roll	904	300.00
June 9.	E. B. Johnson, gas.....	905	8.80
June 23.	Wm. H. Yattaw, cleaning law building.....	916	15.00
July 1.	Wm. H. Yattaw, dust pans, oil, etc.....	917	6.00
June 30.	Tribune Job Printing Co., miscellaneous printed matter...	919	49.75
July 7.	John A. Schlener Co., blotting pad.....	928	.75
July 2.	Sheldon Bacon, balance for lectures in May.....	946	10.25
Total.....			\$5,604.10

MEDICAL DEPARTMENT.

CURRENT EXPENSE.

June —.	Medical Department, pay roll.....	948	693.32
Aug. 1.	N. W. Telephone Co., telephone service, June and July.....	11	13.65
July 30.	Tribune Job Printing Co., bill of printing.....	13	11.00
July 7.	Bausch Lomb Optical Co., apparatus	13	10.50
July 20.	P. H. Millard, postage, stationery and sundries.....	36	32.15
Aug. 30.	Medical Department, pay roll.....	53	249.58
Aug. 30.	Wm. H. Yattaw, cleaning building, sundry petty expense..	54	4.00
Sept. 1.	Warner Brothers, paint, oil and glass.....	59	24.52
Sept. 1.	Trainor Brothers, mason work and material....	60	15.10
Aug. 15.	N. W. Telephone Exchange Co., service, Aug. and Sept.....	62	12.15
Aug. —.	E. B. Johnson, lighting hall.	65	4.14
Aug. 15.	Minnesota Hospital College, rent for Minnesota Hospital College, four months.....	75	200.00
Sept. 30.	Medical Department, September pay roll.....	110	1,029.58
Sept. 29.	E. B. Johnson, petty expense.....	112	3.96
Sept. 29.	Wm. H. Yattaw, labor and petty expense.....	117	25.70
Sept. 26.	Warner Brothers, bill, hardware.....	121	4.66
Sept. 22.	F. R. Mann & Son, kalsomining	152	97.00
Oct. 31.	Medical Department, October pay roll.....	198	1,034.58
Oct. 1.	Tribune Job Printing Co., bill of printing memorandum, envelopes and letter heads.....	199	14.25
Oct. 1.	N. W. Telephone Exchange Co., service.....	202	12.15
Oct. 31.	E. B. Johnson, petty expenses.....	206	5.58
Oct. 10.	Glessner & Washburn, furniture.....	207	8.60
Oct. 31.	Warner Brothers, hardware.....	210	5.47
Oct. 31.	Wm. H. Yattaw, labor and material.....	212	26.30
Oct. 31.	Noyes Bros. & Cutler, chemicals.....	237	8.97
Oct. 9.	S. N. Alder Furniture Co., chairs.....	258	20.83
Oct. 30.	State Board Medical Examiner, advertising.....	260	25.00
Oct. 1.	Journal American Medical Association, advertising.....	262	25.00
Oct. 23.	P. G. Hanson, bill of groceries.....	262	10.16
Sept. 30.	F. S. Martin, chemical supplies and repairs on boiler.....	263	54.27
Oct. 23.	C. J. Bell, freight and drayage.....	264	17.68
Oct. 1.	Eimer & Amend, chemical supplies.....	265	363.50
Oct. 31.	North Western Fuel Co., fuel.....	278	234.57
Nov. 1.	D. W. Sprague, sundry petty bills.....	279	9.10
Nov. 30.	Medical Department, November pay roll.....	304	1,134.58
Dec. 1.	D. W. Sprague, petty bills.....	305	7.50

		No. voucher.	
Nov. 1.	North Western Telephone Exchange Co., services.....	309	\$12.45
Nov. 29.	Wm. H. Yattaw, plumbing bill.....	311	12.65
Nov. 30.	North Western Fuel Co., fuel.....	317	45.70
Nov. 5.	R. B. Lees, bill of lumber and labor.....	318	11.60
Nov. 29.	E. B. Johnson, water tax and freight.....	320	50.37
Nov. 7.	Noyes Bros. & Cutler, drugs and oils.....	327	12.69
Nov. 30.	W. K. Morrison, miscellaneous hardware.....	337	13.37
Nov. 1.	American Stove Repair Works, stove repairs and labor....	350	31.65
Oct. 31.	D. Ramaley & Son, 500 scored cards.....	351	6.50
Oct. 23.	S. S. White Dental Manufacturing Co., advertising.....	352	25.00
Oct. 23.	Wilmington Dental Manufacturing Co., advertising.....	353	10.00
Oct. 27.	Bausch & Lomb Optical Co., supplies.....	354	58.00
Nov. 1.	North Western Lancet, advertising.....	355	45.00
Nov. 15.	Minnesota Hospital Col., rent of store in college building..	356	150.00
Nov. 1.	Tribune Job Print. Co., 500 applica. and 2,000 analyses slips.	364	7.00
Dec. 31.	Medical Department, December pay roll.....	399	1,607.08
Dec. 31.	E. B. Johnson, printing material, cash box, etc.....	400	27.13
Nov. 30.	North Western Fuel Co., fuel.....	408	164.05
Dec. 1.	Harrison & Smith, printing schedules.....	419	4.00
Dec. 31.	D. W. Sprague, petty bills.....	429	13.45
Dec. 1.	P. G. Hanson, supplies.....	456	6.90
Dec. 5.	Bausch & Lomb Optical Co., supplies in medical dept.....	457	35.00
Nov. 1.	H. D. Justi, advertising in Review.....	458	20.00
Nov. 1.	McIntosh Battery and Optical Co., attachment to lantern.	459	10.00
Sept. 29.	International Dent. Pub. Co., adv. 6 mos. in Journal.....	460	20.00
Nov. 14.	Lyman-Eliehl Drug Co., chemical supplies.....	461	23.97
Nov. 1.	W. H. Sadduth, carpenter work and material.....	462	9.36
Nov. 1.	Kirk & Johnson.....	463	17.50
Dec. 31.	Noyes Bros. & Cutler, chemical supplies.....	464	21.90
Nov. 5.	St. Aubin & Dion, labor drawing wood.....	465	12.50
Jan. 31.	Medical department, January pay roll.....	492	880.83
Feb. 2.	E. B. Johnson, gas and petty expenses.....	496	45.73
Jan. 31.	N. W. Fuel Co., fuel.....	499	65.90
Dec. 29.	Standard Oil Co., 1 60-gallon oil tank.....	502	5.50
Jan. 2.	Wm. H. Yattaw, cleaning building and petty exp's.....	505	6.00
Dec. 31.	F. S. Martin, plumbing.....	542	17.95
Jan. 23.	W. H. Sadduth, incidentals.....	544	27.65
Dec. 31.	St. Paul Gas Light Co., gas.....	545	17.14
Jan. 8.	Dr. Stewart, charts.....	546	10.00
Jan. 31.	D. W. Sprague, petty bills.....	558	4.00
Feb. 28.	Medical department, February pay roll.....	574	1,150.83
Feb. 28.	Wm. H. Yattaw, petty expenses.....	581	.80
Feb. 28.	N. W. Fuel Co., fuel.....	583	70.24
Feb. 28.	E. B. Johnson, gas, cards and labor.....	585	35.52
Feb. 28.	D. W. Sprague, petty bills.....	587	7.86
Feb. 1.	N. W. Telephone Exchange Co., services.....	609	13.20
Dec. 23.	Eimer & Amend, chemical supplies.....	612	16.06
Dec. 20.	North Star Rubber Works, heavy rubber tubing.....	618	6.48
Jan. 16.	Noyes Bros. & Cutler, drugs.....	619	18.55
Jan. 28.	Minnesota Electric Co., 2 brackets.....	620	7.00
Jan. 12.	McIntosh Bat. and Opt. Co., lamp on vase, 50 volt....	621	10.00
Feb. 15.	Minnesota Hospital College, rent of store in college bldg..	622	150.00
Mar. 31.	Medical department, March pay roll.....	643	1,150.83
Mar. 30.	E. B. Johnson, gas and petty sundry expenses.....	651	29.12
Mar. 31.	Gustav E. Stechert, books.....	658	5.00
Mar. 31.	W. F. Porter & Co., plumbing goods.....	660	7.50
Feb. 28.	N. W. Fuel Co., coal.....	573	96.75
Mar. 2.	P. G. Hanson, supplies.....	671	9.60
Mar. 28.	Lyman-Eliehl Drug Co., chemical supplies.....	676	3.30
April 30.	Medical department, April pay roll.....	702	1,150.83
Feb. 5.	Standard Oil Co., cylinder oil.....	704	6.00
April 30.	Tribune Job Printing Co., letter heads, cards and pay roll	706	12.00
April 30.	R. B. Lees, carpenter work and material.....	709	4.75
April 30.	E. B. Johnson, gas and petty expenses.....	712	32.16
April 13.	Eimer & Amend, chemical supplies.....	713	47.79
April 30.	Wm. H. Yattaw, labor and petty expenses.....	714	11.50
April 30.	D. W. Sprague, petty bills.....	722	2.50
April 30.	Noyes Bros. and Cutler, chemical supplies.....	723	68.24
April 20.	Lymal-Eliehl Drug Co., 6 pound carb. soda.....	753	1.50
May 31.	Medical department, May pay roll.....	785	1,150.84
June 1.	Wm. H. Yattaw, cleaning around St. Paul medical college	786	8.50
May 6.	Louis Dreka, diplomas.....	787	50.00
June 1.	E. B. Johnson, water tax and gas.....	795	67.77
June 5.	E. B. Johnson, ribbon for diplomas.....	796	4.00
May 28.	Ricard & Gruman, diplomas filled.....	798	14.00
May 31.	D. W. Sprague, petty bills.....	812	19.84
May 31.	W. J. Rose, laundry.....	838	8.00
May 1.	G. Gouser & Co., advertising.....	839	25.00
Feb. 2.	The Medical Era, advertising.....	840	20.00
Dec. 4.	Minnesota Brush Electric Co., lights in Dr. Hendrick and Sadduth's room.....	841	27.85
May 15.	Minnesota Hospital College, rent of store in college bldg..	842	150.00
Jan. 19.	N. W. Journal of Homeopathy, advertising.....	843	45.00
April 27.	Cody & Hineline, pipe and fittings.....	844	6.66
April 28.	Noyes Bros. & Cutler, chemical supplies.....	845	21.47
May 29.	McIntosh Battery and Optical Company, 1 lamp, 50 volt ...	846	8.00

			No voucher.	
June 1.	American Medical College Association, annual dues....	847		\$10.00
April 1.	P. G. Hanson, brooms, soaps, etc	852		7.33
Mar. 31.	Noyes Bros. & Cutler, chemical supplies.....	853		17.72
May 31.	Albert E. Senkler, M. D., expense of lectures at Medical College.....	856		50.00
May 31.	E. J. Abbott, M. D., expense of lectures at Medical College.	857		25.00
May 31.	Chas. A. Wheaton, M. D., expense of lectures at Med. College	858		50.00
May 31.	Alex. J. Stone, M. D., expense of lectures at Med. cal College	859		50.00
May 31.	John F. Fulton, M. D., expense of lectures at Med. College..	860		50.00
May 31.	C. Eugene Riggs, M. D., expense of lectures at Med. College.	861		50.00
May 31.	A. McLaren, M. D., expense of lectures at Medical College.	862		25.00
May 31.	Frederick Dunsmoor, M. D., expense of lectures at Medical College.....	863		25.00
May 31.	Henry Hutchinson, M. D., expense of lectures at Medical College.....	864		50.00
May 31.	W. S. Briggs, M. D., expense of lectures at Medical College.	865		50.00
May 31.	B. H. Ogden, M. D., expense of lectures at Medical College.	866		50.00
May 31.	Eugene L. Mann, M. D., expense of lectures at Med. College	867		50.00
May 31.	D. A. Stickler, M. D., expense of lectures at Medical College	868		50.00
May 31.	E. C. Spencer, M. D., expense of lectures at Medical College	895		50.00
June 30.	Medical Department, June pay roll.....	904		1,145.83
June 9.	E. B. Johnson, gas and setting type	905		15.84
June 28.	N. W. Telephone Exchange Company, services	914		14.10
June 23.	Wm. H. Yattaw, inspecting boilers.....	916		3.00
June 30.	Tribune Job Printing Co., printing wrappers and pamphlets	919		337.50
July 1.	D. W. Sprague, petty bills	932		2.80
Mar. 20.	Noyes Bros. & Cutler, ammonia.....	947		6.06
June 8.	U. G. Upholstery and Repair Co., repairing long table.....	948		7.50
July 31.	Medical Department, July pay roll.....	982		249.68
Total.....				\$17,212.83

EXPERIMENT STATION.

(General Station Expenses.)

CURRENT EXPENSE.

June.	General Station, pay roll June	948		\$405.93
Aug. 1.	N. W. Telephone Exch. Co., tel. service June and July	11		14.00
June 30.	W. K. Morrison & Co., refrigerator, paint and sundries....	19		46.43
June 1.	American Veterinary Review, 2 years subscript'n of Review	20		6.00
July 22.	N. W. McLain, freight, express and sundries	22		11.24
Feb. 4.	Cornish, Curtis & Greene, 6 Cooley cans	29		6.50
July 2.	Aid Collins, policy on boiler.....	30		10.00
July.	Russell, Boynton & Co., bill of plumbing goods	32		20.36
July 1.	E. H. S. Dart, sundry expenses at Owatonna Station	33		157.38
Aug. 30.	General Station, pay roll.....	53		141.66
Aug. 30.	General Station, pay roll	53		148.17
Aug. 15.	N. W. Telephone Exchange Co., service Aug. and Sept. . .	62		14.00
Sept. 1.	D. W. Sprague, petty bills	78		13.78
Aug. 23.	W. A. Gould, stamps, postal cards and sundries.....	82		10.69
July 31.	W. K. Morrison & Co., bill of hardware....	84		14.75
Aug. 23.	N. W. McLain, freight and express	90		30.88
Sept. 30.	General Station September pay roll	110		233.66
Sept. 30.	D. W. Sprague, petty bills	124		17.22
Sept. 15.	Peter Nelson, labor, grading.....	153		286.00
Sept. 23.	St. Anthony Park Supply Co., blacksmithing	156		8.10
July.	Gustav E. Stechert, plants.....	157		10.12
Aug. 30.	W. K. Morrison & Co., oil and nails	163		5.95
Sept. 24.	N. W. McLain, express and petty expenses.....	164		186.08
Sept. 1.	Tribune Job Print'g Co., bulletins and portfolio envelopes.	165		63.80
Oct. 31.	General Station, October pay roll	198		251.67
Oct. 1.	N. W. Telephone Exchange Co., services	202		14.00
Oct. 14.	S. M. Emery, sundry petty expenses.....	204		5.26
Oct. 27.	N. W. McLain, freight and express	240		138.57
Oct. 16.	Henry E. Alvord, contribution in relation to "Morrill Act"	273		10.00
Nov. 1.	D. W. Sprague, sundry petty bills.	279		14.77
Nov. 30.	General Station, November pay roll.....	304		219.73
Dec. 1.	D. W. Sprague, petty bills.....	305		17.40
Nov. 1.	N. W. Telephone Exchange Co., services.....	309		14.00
Nov. 30.	Chas. D. Whitall & Co., waste basket, paper and pencils....	326		1.75
Nov. 30.	W. K. Morrison & Co., miscellaneous hardware.....	337		27.14
Nov. 27.	W. M. Hays, expenses attending meeting of agr'l colleges..	357		45.51
Sept. 15.	Union Railway Storage Co., pipe.....	349		10.08
Oct. 1.	R. S. Goodfellow & Co., toweling, bed'g for farm b'dg house	361		9.65
Oct. 29.	Held & Gruenhagen, miscellaneous hardware.....	362		8.48
Nov. 29.	E. F. Batten, labor, stamps and freight	363		30.73
Nov. 25.	A. Anderson, 21 days carpenter work.	368		42.50
Oct. 17.	N. W. Fuel Co., coal	369		236.39
Oct. 13.	Brooks Bros., bill of lumber	372		10.19
Nov. 26.	Pierce Brothers, 60 sheep.....	373		305.10
Dec. 31.	General Station, December pay roll.....	399		252.53
Dec. 10.	John A. Schlener & Co., 1 quire mem. paper	404		.75
Dec. 31.	D. W. Sprague, petty bills	429		19.18
Oct. 4.	Gustav E. Stechert, text book.....	449		7.07
Nov. 30.	W. K. Morrison & Co., bill miscellaneous hardware.....	454		14.03
Dec. 20.	Cunningham & Haas, 30 lambs	468		104.25

		No. voucher.	
Sept. 22.	Pioneer Fuel Co., fuel.....	470	\$8.00
Dec. 23.	W. M. Hays, grinding corn and express.....	471	7.81
Dec. 24.	Minneapolis Grain and Feed Co., miscellaneous grains.....	472	235.52
Nov. 27.	W. C. Nichols & Son, 1 registered ram lamb.....	473	45.00
Dec. 24.	Chas. T. Cherry, 1 registered Poland China sow.....	474	30.00
Dec. 20.	Enterprize Machine Co., 647 lb. grate bars.....	476	17.79
Dec. 30.	N. W. McLain, stamps, box rent, trips to St. Paul and S. St. P.	477	233.18
Dec. 24.	E. F. Batten, 4 trips to Mpls., St. Paul, stamps and petty ex.	478	5.15
Jan. 31.	General Station, pay roll.....	492	227.46
Jan. 30.	Gustav E. Stechert, books for library.....	493	6.75
Jan. 31.	Tribune Job Printing Co., bulletin, envelopes and mem....	494	53.75
Jan. 31.	Chas. D. Whitall & Co., time books, mem., etc.....	500	3.00
Jan. 31.	Held & Gruenhagen, lanterns, globes and glass.....	532	.40
Jan. 31.	Pioneer Fuel Co., fuel.....	537	10.95
Jan. 9.	Naylor & Co., plumbing goods.....	538	1.05
Jan. 31.	W. K. Morrison & Co., hardware.....	540	10.48
Nov. 25.	N. W. McLain, sundry expenses.....	547	126.31
Jan. 31.	E. F. Batten, stamps, and 4 trips to St. Paul.....	549	7.46
Dec. 6.	Garden and Forest Pub. Co., subscription.....	552	8.00
Jan. 30.	Minneapolis Grain and Feed Co., miscellaneous grains....	555	159.70
Jan. 20.	The Manufacturing Syndicate, 1 barrel truck and irons....	557	6.50
Jan. 31.	D. W. Sprague, petty bills.....	558	7.15
Feb. 13.	Knute Nelson, expenses Board meeting.....	560	14.00
Jan. 16.	McDonald Bros., Jars.....	554	8.80
Feb. 28.	General Station, February pay roll.....	574	167.66
Feb. 28.	D. W. Sprague, petty bills.....	587	23.85
Feb. 1.	Northwestern Telephone Exchange Co., services.....	609	14.00
Feb. 14.	S. M. Emery, exp. to St. Anthony and telegrams.....	623	13.28
Jan. 12.	Minneapolis Tubular Well Co., well supplies.....	625	19.62
Jan. 31.	W. K. Morrison & Co., nails and brick lining for stoves....	626	7.10
Feb. 21.	Journal of Anal. Chem., subscription to vol. 3 and 4.....	627	6.00
Feb. 10.	W. F. Porter & Co., 2 globe valves.....	628	6.60
Feb. 18.	St. Anthony Park Supply Co., repairing.....	629	6.20
Feb. 28.	Northwestern Fuel Co., coal.....	631	148.35
Feb. 28.	Tribune Job Printing Co., printing bulletins.....	632	142.05
Feb. 28.	E. F. Batten, stamps, box rent and petty expenses.....	633	14.46
Mar. 31.	General Station, March pay roll.....	643	128.16
Mar. 21.	W. F. Porter & Co., plumbing goods.....	660	3.20
Feb. 28.	W. K. Morrison & Co., carpenter tools.....	679	6.25
Mar. 28.	Tribune Job Printing Co., printing bulletins.....	680	186.15
Feb. 17.	H. M. Leighton, carpenter work.....	682	58.53
Dec. 27.	G. F. Shaw, labor on green house.....	683	15.15
Dec. 24.	N. W. McLain, cook stove for men's boarding house.....	684	25.00
Mar. 1.	F. A. Fletcher & Co., 1 single harness and repairs.....	685	37.30
Mar. 28.	T. Batten, sundry petty expenses.....	687	18.00
Mar. 9.	Carl Bohr, cutting and hauling ice.....	689	29.50
Mar. 28.	S. M. Emery, petty expenses.....	690	9.92
April 30.	General Station, April pay roll.....	702	101.49
April 30.	D. W. Sprague, petty bills.....	722	20.35
April 30.	A. J. Menard, oats and feed.....	759	63.26
Mar. 7.	N. W. Fuel Co., stove coal.....	765	61.44
Apr. 25.	Tribune Job Print. Co., miscellaneous printing.....	766	40.00
Apr. 29.	Clinton D. Smith, traveling exp. to Ark. and return.....	170	75.00
Apr. 15.	Gustav E. Stechert, books.....	773	16.00
Apr. 28.	E. F. Batten, sundry petty expenses.....	774	17.10
Apr. 15.	Pioneer Press Co., reg. blanks.....	781	6.90
May 31.	General Station, May pay roll.....	785	222.85
May 31.	D. W. Sprague, petty bills.....	812	5.42
May 29.	Clinton D. Smith, stamps, expenses, labor, etc.....	870	122.95
May 27.	E. F. Batten, trips to Minneapolis and expenses.....	873	7.50
May 25.	Held & Gruenhagen, hardware.....	874	.60
May 14.	H. Weckworth, 1000 lbs. shorts.....	877	10.00
Apr. 28.	E. F. Batten, extra compensation for 2 months.....	881	60.00
May 25.	Tribune Job Printing Co., letter heads and Bulletins.....	883	40.85
May 25.	J. H. Kerrick, work and material for repairing boiler.....	886	31.28
April 1.	Pillsbury-Washburn F. M. Co., bran.....	888	88.25
April 30.	W. K. Morrison & Co., hardware.....	889	5.66
June 30.	General Station, June pay roll.....	904	120.83
June 28.	N. W. Telephone Exchange Co., services.....	914	14.00
July 1.	D. W. Sprague, petty bills.....	932	3.50
July 3.	Clinton D. Smith, trips to look over dairy establishments..	949	36.88
June 24.	Clinton D. Smith, freight.....	950	15.04
May 26.	Tribune Job Print. Co., envelopes.....	956	1.50
June 22.	Jno. LeVesconte, cleaning, repairing and surveying.....	957	12.00
June 12.	Wright, Barrett & Stillwell, paper.....	958	2.20
June 15.	Nelson, Tenney & Co., lumber.....	959	8.20
May 2.	N. W. Photo Eng. Co., 2 cuts insects.....	969	6.50
July 31.	General Station, July pay roll.....	982	204.15
Total.....			\$7,229.37

SEVENTH BIENNIAL REPORT

EXPERIMENT STATION.

1891.	DIV. OF AGRICULTURE: CURRENT EXPENSE.	No. voucher.	
June.	Division of Agriculture, pay roll.....	948	\$359.46
Aug. 1.	E. B. Johnson, petty bills	1	4.60
July 22.	W. H. Gentry, stock.....	21	60.00
July 22.	N. W. McLain, freight, express and sundries.....	22	155.67
July 11.	Nelson, Tenney & Co., bill of lumber	24	44.48
July 11.	Pillsbury-Washburn Flour Mill Co., bill of bran ..	25	7.60
July 2.	O. W. Jones, bill of agricultural implements and twine....	26	53.75
July 1.	George Edwards, blacksmithing	27	6.00
July 12.	Neill & Pratt Lumber Co., bill of lumber	31	6.30
Aug. 30.	Division of Agriculture, pay roll.....	53	158.33
Aug. 30.	Division of Agriculture, pay roll.....	53	193.86
Aug. 4.	Northrup, Braslan & Goodwin Co., bags.....	81	3.25
Aug. 20.	D. C. Martin, livery.....	83	6.00
Aug. 23.	Gardner & Firkins, sawed posts.....	86	37.20
Aug. 7.	S. Huntington, labor on experiment farm.....	89	46.00
Sept. 30.	Division of Agriculture, September pay roll.....	110	409.50
Aug. 27.	Mast, Buford & Burwell, feed cutters, knives and express	154	9.21
July.	Burns & Gorham, blacksmithing	155	5.20
Sept. 23.	St. Anthony Park Supply Co., labor and blacksmithing....	156	14.75
Sept. 22.	Willet M. Hayes, sundry petty expenses.....	158	73.50
Sept. 22.	James Powers, threshing oats	150	17.20
Aug. 29.	Pillsbury-Washburn Flour Mill Co., 2,000 lbs screenings....	161	8.00
Sept. 1.	W. J. Neeley, 3 Essex hogs	162	79.60
Sept. 20.	Nelson, Tenney & Co., bill of lumber.....	167	13.25
Oct. 31.	Division of Agriculture, October pay roll.....	198	359.16
Sept. 30.	F. A. Fletcher & Co., saddlery.....	239	7.65
Sept. 25.	Gardner & Firkins, posts.....	241	11.10
Oct. 24.	Brooks Bros., lumber.....	242	7.83
Oct. 1.	Held & Gruenhagen, glass and felt.....	244	9.42
Oct. 22.	E. W. Davis, stock, (hogs).....	245	40.00
Oct. 20.	G. W. Plank, 5 Poland-China pigs.....	246	27.32
Oct. 22.	Brooks Bros., entomological supplies	247	19.20
Oct. 17.	W. F. Wilcox, stock, (pigs)	248	47.94
Sept. 29.	W. F. Porter & Co., 1 round gate.....	250	8.00
Oct. 17.	W. M. Hays, grass seeds and sundry petty expenses.....	252	59.45
Nov. 30.	Division of Agriculture, November pay roll.....	304	443.03
Oct. 29.	E. C. Curtis, 6 pigs and crates	367	20.58
Dec. 31.	Division Agriculture, December pay roll	399	385.37
Dec. 23.	Northrup, Braslan Co., seeds and bulbs.....	466	25.04
Jan. 31.	Division Agriculture, January pay roll.....	492	353.05
Jan. 1.	H. F. Sanders' service	551	5.27
Feb. 28.	Division Agriculture, February pay roll.....	574	329.41
Feb. 27.	Minneapolis Grain & Feed Co., meal and corn.....	630	96.62
Mar. 31.	Division Agriculture, March pay roll.....	643	303.80
Apr. 11.	Genessee Valley Manufacturing Co., 1 grain drill	677	78.00
Jan. 31.	Vilmorin-Andrieux & Cie., beet seeds.....	691	77.10
Apr. 30.	Division of Agriculture, April pay roll	702	342.27
Mar. 26.	S. Huntington, labor threshing flax, etc.....	762	25.15
Apr. 19.	Adam Lindig, 86 bushels seed oats	764	51.60
Apr. 25.	Northrup, Braslan, Goodwin Co., seeds	771	46.39
Apr. 8.	L. H. Haynes, 21 bushels wheat and 12 sacks ..	775	29.25
Mar. 20.	August Röelker & Sons, chemical supplies.....	777	77.29
Apr. 6.	Bemis Bros. Bag Co., twine	780	54.43
Apr. 15.	W. M. Hays, wheat, express and freight.....	782	13.63
May 31.	Division Agriculture, May pay roll	785	423.33
May 31.	D. W. Sprague, petty bills.....	812	5.89
May 25.	Northrup, Braslan, Goodwin, seeds.....	871	49.29
May 18.	M. J. Hoag, seed and sacks	884	5.65
June 30.	Division Agriculture, June pay roll	904	466.58
July 1.	D. W. Sprague, petty bills.....	932	1.90
June 24.	Clinton D. Smith, freight.....	950	2.05
June 16.	North Western Fuel Co., fuel	952	12.88
June 16.	J. G. Bass, 28 days horse hire.....	953	23.40
June 3.	Adam Lindig, oats.....	954	28.48
June 22.	Jno. Le Vescotte, cleaning, repairing and surveying.....	957	14.00
June 8.	Minneapolis Brewing Co., barley.....	961	66.25
June 9.	Minnesota Linseed Oil Works, 1,000 pounds oil meal.....	962	11.50
June 1.	Farm, Stock and Home Publishing Co., advertising.....	963	9.30
May 30.	C. L. Moffat, blacksmithing.....	967	13.75
June 9.	Stamwitz & Shober, 2,110 pounds shorts	970	16.88
June 9.	City Elevator Co., ground feed and shelled corn.....	971	46.08
July 31.	Div. of Agriculture, July pay roll.....	982	490.52
Total.....			\$6,817.24

EXPERIMENT STATION.

	DIV. OF CHEMISTRY: CURRENT EXPENSE.		
June.	Div. Chemistry, pay roll.....	948	\$125.00
Aug. 30.	Div. Chemistry, pay roll	53	100.00
Aug. 19.	D. N. Harper, petty expenses.....	89	13.78
Sept. 30.	Div. Chemistry, September pay roll.....	110	125.00
Aug. 26.	Miss M. M. Harper, diagrams	166	12.60
Oct. 31.	Div. Chemistry, October pay roll	198	75.00

			No. voucher.	
Oct.	27.	N. W. McLain, freight and express.....	240	\$6.45
Aug.	8.	Eimer & Amend, chemical supplies	243	22.00
Sept.	11.	Gustav E. Stechert, Lock on sugar.....	251	7.35
Oct.	31.	John Thompson, work in caring for laboratory.....	274	7.50
Nov.	30.	Div. of Chemistry, November pay roll.....	304	100.00
Dec.	31.	Div. of Chemistry, December pay roll.....	399	104.75
Oct.	27.	A. R. Miller, one fruit press	475	4.50
Jan.	31.	Div. Chemistry, January pay roll	492	143.23
Jan.	31.	Chas. D. Whitehall & Co., tracing cloth and ink stand.....	500	1.90
Jan.	31.	W. K. Morrison, hardware.....	540	9.75
Feb.	28.	Div. Chemistry, February pay roll.....	574	100.00
Mar.	31.	Div. Chemistry, March pay roll.....	643	131.24
Mar.	31.	John A. Schlener & Co., pen, ink and paper.....	649	6.14
Nov.	1.	Tribune Job Printing Co., print letter heads and envelopes	691½	6.25
Apr.	30.	Div. Chemistry, April pay roll ..	702	203.84
Apr.	30.	Tribune Job Printing Co., miscellaneous printing.....	706	4.25
Apr.	30.	D. W. Sprague, petty bills.....	722	.36
Apr.	27.	D. N. Harper, freight.....	741	67.98
Jan.	30.	Detroit Heating and Lighting Co., regulator.....	743	205.00
Mar.	21.	W. F. Porter & Co., plumbing and material.....	758	17.08
Apr.	25.	Tribune Job Printing Co., miscellaneous printing.....	766	9.25
Apr.	25.	Chas. D. Whitall & Co., one hektograph, letter size.....	769	3.75
Apr.	15.	Gustav E. Stechert, reference books.....	773	6.04
Apr.	27.	N. D. Harper, freight, stamps and sundries.....	778	59.28
Dec.	10.	Eimer & Amend, 1 mill C. and petty expenses.....	779	60.75
May	31.	Div. Chemistry, May pay roll.....	785	200.00
May	31.	D. W. Sprague, petty bills.....	812	1.75
May	31.	Eimer & Amend, chemical supplies.....	824	1,055.22
May	31.	N. D. Harper, paper card board.....	854	.65
April	15.	Noyes, Bros. & Cutler, museum supplies.....	855	19.40
May	25.	Bemis Bros. Bag Co., supplies.....	882	26.23
Mar.	10.	Standard Oil Co., 8 barrels oil.....	893	60.25
June	30.	Division of Chemistry, June pay roll.....	904	25.00
July	7.	John A. Schlener & Co., 13 quire journal.....	928	.42
July	7.	J. F. Lucas, labor and material.....	935	113.00
June	30.	Eimer & Amend, chemical supplies.....	936	1,236.97
June	5.	Husby & Skange, carpenter work and material.....	937	40.92
June	24.	Clinton D. Smith, freight.....	950	19.39
May	30.	Bemis Bros. Bag Co., bags.....	955	10.88
May	26.	Tribune Job Printing Co., envelopes.....	956	10.00
June	8.	Noyes Bros. & Cutler, Chemical supplies..	960	4.78
May	8.	Utah Sugar Co., beet seed	968	66.00
June	25.	Joseph Posca, fire pipe 38¼.....	976	17.10
July	31.	Div. of chemistry, July pay roll.....	982	105.06
Total				\$4,752.98

1891.

EXPERIMENT STATION.

DIV. OF ENTOMOLOGY: CURRENT EXPENSE.

June		Division Entomology, pay roll.	948	\$166.60
July	22.	W. W. McLain, freight and express.....	22	2.38
July	12.	Tribune Job Printing Company, printing envelopes and letter heads.....	23	10.20
Aug.	30.	Division Entomology, pay roll.....	53	150.00
July	28.	St. Paul School Furniture Co., bug breeders.....	85	8.00
Sept.	30.	Division Entomology, September pay roll	110	150.00
Oct.	31.	Division Entomology, October pay roll.....	198	150.00
Nov.	1.	O. Lugger, postage, express and petty expenses.....	249	100.26
Nov.	30.	Division Entomology, November pay roll	304	165.97
Nov.	13.	Jas. Keenhotts, painting and finishing frames	365	15.00
Dec.	31.	Division Entomology, December pay roll	399	159.85
Dec.	23.	Otto Lugger, postage, railroad fare and herbarium paper.....	467	63.84
Dec.	8.	John Schmitt, 100 insect boxes	469	115.00
Jan.	31.	Division Entomology, January pay roll.....	492	168.60
Jan.	29.	Otto Lugger, postage, express, herbarium paper.....	550	18.12
Jan.	16.	Graphic Illustrating Company, 5 reproduc	556	10.00
Feb.	28.	Division Entomology, February pay roll.....	574	150.00
Mar.	31.	Division Entomology, March pay roll.....	643	173.36
April	30.	Division Entomology, April pay roll.....	702	180.00
April	27.	Otto Lugger, entomological pins, postage, etc.....	761	89.88
April	15.	Noyes Bros. & Cutler, chemical supplies.....	768	33.88
April	25.	Chas. D. Whitall & Co., supplies.....	769	10.02
May	31.	Division Entomology, May pay roll.....	785	195.00
May	31.	Gustav E. Stechert, text books	813	11.88
Dec.	10.	Eimer & Amend, chemical supplies.....	779	1.95
May	29.	Clinton D. Smith, stamps and express	870	6.48
May	23.	Graphic Company 9 cuts and 5 reproductions.....	872	17.25
May	31.	Carl T. Thayer, 4 butterfly nets.....	878	6.00
May	27.	Otto Lugger, postage and trips to St. Paul.....	879	5.76
April	30.	W. K. Morrison & Co., hardware.....	889	6.25
May	20.	Gustav E. Stechert, books.....	891	55.10
June	30.	Division Entomology, June pay roll.....	904	195.00
June	12.	Wright, Barrett & Stillwell, paper	958	3.05
June	4.	Minneapolis Wire Works Company, 24 wire cloth covers....	964	14.00
April	25.	Field Force Pump Company, pumps and fixtures.....	965	24.55
July	31.	Division Entomology, July pay roll.....	982	195.00
Total.....				\$3,071.443

EXPERIMENT STATION.

DIVISION OF HORTICULTURE.—CURRENT EXPENSE.		No. voucher.	
June.	Division Horticulture, pay roll	948	\$239.16
Aug. 1.	E. B. Johnson, petty bills.....	1	10.75
July 22.	N. W. McLain, 1 bundle shrubs	22	.30
July 14.	Lindsay Bros., planet hoe and sweeps.....	28	8.00
Aug. 30.	Division Horticulture, pay roll	53	100.00
Aug. 30.	Division Horticulture, pay roll.....	53	99.96
June 24.	The Jewel Nursery Co., trees.....	88	133.45
Sept. 30.	Division Horticulture, September pay roll	110	234.96
Sept. 22.	S. B. Green, express.....	159	5.95
Oct. 31.	Division Horticulture, October pay roll.....	197	160.00
Sept. 30.	F. A. Fletcher & Co., saddlery.....	239	2.70
Nov. 30.	Division Horticulture, November pay roll.....	304	195.49
Nov. 11.	Robert Olson, work in horticultural department	360	31.37
Oct. 25.	A. Anderson, carpenter work	368	10.00
Dec. 31.	Division Horticulture, December pay roll.....	399	169.18
Dec. 29.	Held & Gruenhagen, miscellaneous hardware.....	441	24.16
Dec. 23.	Northrup, Braslan & Co., seeds and bulbs.....	466	38.08
Jan. 31.	Division Horticulture, January pay roll.....	492	154.00
Jan. 31.	Held & Gruenhagen, bill of hardware	532	8.00
Dec. 27.	G. F. Shaw, painting greenhouse	548	14.85
Jan. 29.	Sam'l B. Green, service in nursery, stamps, stationery	553	20.58
Jan. 31.	D. W. Sprague, bills	558	2.00
Feb. 28.	Division Horticulture, February pay roll.....	574	147.75
Feb. 18.	St. Anthony Park Supply Co., painting and repairing buggy	629	18.50
Feb. 28.	N. W. Fuel Co., coal.....	631	125.78
Mar. 31.	Division Horticulture, March pay roll.....	643	154.19
Mar. 31.	Gustav E. Stechert, books	658	6.75
Feb. 10.	J. M. Thorburn & Co., seeds.....	678	5.88
Mar. 21.	Chas. D. Whittall & Co., paper and supplies.....	681	10.10
Mar. 9.	Samuel B. Green, petty expenses	688	5.35
Apr. 30.	Division horticulture, April pay roll	702	224.74
Apr. 30.	Tribune Job Printing Co., miscellaneous printing	706	3.00
Apr. 30.	D. W. Sprague, petty bills.....	722	1.94
Apr. 28.	Samuel B. Green, sundry petty expenses	760	32.60
Apr. 21.	Gabriel J. Lambrigger, 100 buffalo berries	763	10.00
Mar. 7.	N. W. Fuel Co., stove coal.....	765	61.43
Apr. 13.	Stephen Hoyt Sons, trees	767	12.25
Apr. 14.	T. S. Hubbard & Co., vines.....	776	12.09
Apr. 24.	Northrup, Braslan & Goodwin, seeds.....	771	5.57
Mar. 24.	Johnson & Stokes, copper labels and postage	772	8.28
May 31.	Division Horticulture, May pay roll.....	785	298.50
May 31.	D. W. Sprague, petty bills.. ..	812	6.65
May 31.	Northrup Braslan & Co., seeds.....	823	23.58
May 31.	John McBride, labor in school of agriculture.....	850	33.75
May 9.	A. Clark Tuttle, apple trees.....	869	6.60
May 25.	Held & Gruenhagen, hardware.....	874	31.92
Apr. 6.	J. T. Lovett Co., plants and trees.....	875	32.16
May 20.	Samuel B. Green, freight and express	876	35.29
Apr. 20.	Ellwanger & Barry, vines, trees and plants.....	880	78.65
May 25.	Tribune Job Printing Co., tags	883	2.00
May 5.	Frank H. Gibbs, plowing land for new orchard.....	885	10.00
Apr. 30.	Green's Nursery Co., fruit vines	887	15.60
Mar. 24.	Peter Henderson & Co., garden seeds.....	890	5.87
Apr. 6.	John Lewis Childs, 50 wine berries.....	892	12.50
June 30.	Division Horticulture, June pay roll.....	904	236.31
June 24.	Clinton D. Smith, freight	950	6.23
Apr. 13.	Phil Strubbler, fruit trees	951	6.50
May 20.	M. Crawford, plants.....	951	9.45
July 31.	Division Horticulture, July pay roll.....	982	266.33
Total.....			\$3,638.23

CURRENT EXPENSE.

Summary of disbursements for fiscal year ending July 31, 1891.

General University.....	\$14,570.77
College of Science, Literature and the Arts.....	68,448.54
School of Agriculture	18,425.19
Veterinary Department.....	2,283.93
Military Department.	1,104.38
Mechanic Arts.....	16,650.70
Geological Survey.....	5,530.94
Law Department.....	5,604.10
Medical Department.....	17,212.83
Experiment Station—	
General Station.....	\$7,220.37
Division of Agriculture.....	6,817.24
Division of Chemistry.	4,752.98
Division of Entomology.....	3,071.43
Division of Horticulture.....	3,638.23
	<hr/>
	25,509.25
Total	<hr/>
	\$175,340.63

FINANCIAL STATEMENT

of the University of Minnesota for the fiscal year commencing August 1, 1891, and ending July 31, 1892.

CURRENT EXPENSE.

Summary of amounts placed to the credit of the current expense account of the University, during the fiscal year ending July 31, 1892.

Balance on August 1, 1891.....	\$24,713.56
Annual appropriation.	65,000.00
Interest on University land contracts.....	24,076.47
Interest on University bonds.....	18,721.68
From U. S. treasury—Hatch bill.....	11,250.00
From U. S. treasury—Morrill bill.....	17,000.00
Insurance—losses from fire.....	1,457.62
Sales of Salt Spring lands..	9,921.15
University—fees, etc.....	19,458.26
Experiment station—sales.....	2,941.50
Veterinary hospital—fees.....	580.15
School of Agriculture—dairy products, etc.....	2,452.42
Total.....	\$197,572.81

AMOUNTS RECEIVED FROM STATE TREASURY ON AUDITOR'S WARRANTS.

	BILLS.	PAY ROLLS.
July.....	\$3,697.35	.....
August.....	5,452.46	\$2,982.61
September.....	6,072.81	11,109.66
October.....	5,322.80	12,079.33
November.....	9,031.44	12,333.20
December.....	7,997.30	12,471.53
January.....	7,136.41	12,323.06
February.....	8,445.80	12,210.78
March.....	6,962.22	12,378.72
April.....	3,563.18	12,062.39
May.....	5,060.42	12,481.73
June.....	4,473.24	11,504.33
July.....	.....	3,121.80
	<u>\$73,216.43</u>	<u>\$127,059.11</u>
Total.....		\$200,275.57
Less amount paid out for special appropriations*		15,761.92
		<u>\$184,513.65</u>

BILLS PAID BY AUDITOR.

Paid N. H. Winchell—Geol. survey..	\$110.50	
Outstanding warrant August 1, 1891	59.93	
Fees paid Co. treas. for collections..	70.76	
Int. on 107 R. R. adjustm't bonds...	236.25	\$477.44
		<u>\$184,991.09</u>
		\$12,581.72
Outstanding warrant July 31, 1892.....		6,799.48
		<u>\$19,381.20</u>
Balance in treasury July 31, 1892.....		

*For special appropriations see page (....) of this report.

GENERAL UNIVERSITY.

		CURRENT EXPENSE—DISBURSEMENTS.	No. voucher.	
Aug.	3.	E. B. Johnson, stamps and gas.....	1	\$161.19
April	13.	Wright, Barrett & Stillwell, three reams bankers' lin. paper	2	11.04
July	22.	New England Furniture Co., use of 200 K. chairs	3	10.00
July	30.	Trainor Brothers, vault complete	6	385.00
July	23.	Horatio P. Brown, services as treasurer of University.....	11	400.00
July	31.	D. W. Sprague, petty bills	16	2.75
Aug.	1.	Glessner & Washburn, one desk.....	19	28.00
July	31.	Tribune Job Printing Co., receipts, letter heads, wrappers.	21	43.25
Aug.	1.	E. B. Johnson, miscellaneous advertising	49	293.45
Aug.	31.	General University, August pay roll.....	52	208.33
Sept.	2.	E. B. Johnson, stamps, gas and labor.	54	183.70
Sept.	1.	E. L. Ames & Co., painting and lettering 4 vault boxes.....	60	2.00
Sept.	1.	D. W. Sprague, petty bills	73	9.30
Aug.	31.	Tribune Job Printing Co., miscellaneous printing.....	79	43.75
Sept.	1.	Glessner & Washburn, carpet, shades, chairs and table....	80	58.75
May	22.	Horace V. Winchell, traveling expenses, att'y's fees, etc..	129	381.69
Sept.	30.	General University, September pay roll.....	136	858.33
Sept.	30.	E. B. Johnson, postage, salaries of employes, etc.....	129	381.69
Sept.	30.	D. W. Sprague, petty bills.....	139	7.25
Oct.	1.	N. W. Telephone Exchange Co., telephone service.....	143	9.50
Sept.	26.	Minneapolis Paper Co., 18 gr. pens and 10 scratch blocks ..	145	11.40
Sept.	30.	Tribune Job Printing Co., miscellaneous printing.....	146	26.00
Sept.	30.	John A. Schlener & Co., office supplies	147	3.05
Sept.	1.	W. J. Dyer & Bro., use of piano at commencement.....	152	7.00
Sept.	15.	O. P. Stearns, traveling expense and incidentals.....	158	22.50
Oct.	1.	R. B. Lees, carpenter work.....	166	1.50
Sept.	23.	Charles B. Elliot, services.....	179	50.00
Oct.	15.	D. W. Sprague, petty bills.....	202	6.25
Oct.	31.	General University, October pay roll.....	203	920.83
Oct.	31.	E. B. Johnson, freight, express and gas.....	204	40.53
Oct.	31.	Tribune Job Printing Co., miscellaneous printed matter...	206	26.25
Oct.	30.	John A. Schlener & Co., stationery.....	207	.60
Oct.	31.	D. W. Sprague, petty bills.....	211	6.65
Oct.	10.	Harry W. Jones, sketches for astronomical building.....	219	10.00
Nov.	1.	N. W. Telephone Exchange Co., telephone service.....	224	6.00
Oct.	5.	Littlefield & Moore, 4 galvanized iron boxes.....	228	6.00
Nov.	30.	Gen. University, November pay roll	302	920.83
Nov.	30.	E. B. Johnson, freight and express	304	47.07
Nov.	17.	Minneapolis Paper Co., office supplies.....	313	6.73
Nov.	30.	Lotta L. Black, labor on expense list.....	318	5.75
Nov.	9.	N. W. Lith. & Eng. Co., lithographed certificates	319	35.00
Nov.	28.	The Beard-Hudson Printing Co., advertisements.....	327	12.50
Nov.	30.	John A. Schlener & Co., office supplies.....	320	3.45
Nov.	30.	Tribune Job Printing Co., envelopes and show card.....	333	6.50
Dec.	31.	Gen. University, December pay roll.....	409	920.83
Dec.	31.	E. B. Johnson, stationery	410	2.98
Dec.	14.	Parsons Paper Co., letter and note heads, etc.....	420	75.00
Dec.	1.	N. W. Telephone Exchange Co., telephone service.....	422	3.00
Dec.	31.	D. W. Sprague, petty bills	427	5.20
Dec.	31.	Tribune Job Printing Co., 5,000 library tickets.....	429	5.00
Dec.	23.	K. Nelson, expense of trips in interest of school	434	20.50
Dec.	31.	John S. Pillsbury, paid for four regents dinners in 1891.....	435	40.11
Jan.	13.	John S. Pillsbury, paid assessm't for sidewalk oppo. Block 14	436	53.21
Jan.	31.	General University, January pay roll.....	496	920.83
Jan.	30.	E. B. Johnson, salaries of employes, gas.....	497	79.50
Jan.	30.	D. W. Sprague, ¼ lb. assorted bands and wire.....	498	1.40
Jan.	29.	Minneapolis Paper Co., 2 doz. brass edge rulers and twine...	500	3.68
Jan.	30.	Lotta L. Black, 40 hours writing.....	504	10.00
Feb.	1.	N. W. Telephone Exchange Co., telephone service.....	508	6.00
Feb.	1.	Tribune Job Printing Co., fifty pay rolls.....	521	8.80
Jan.	25.	S. M. Emery, expense of board meeting.....	522	6.76
Jan.	19.	John Schlener & Co., stationery.....	537	1.73
Jan.	4.	D. W. Sprague, freight and drayage on paper.....	575	9.08
Feb.	29.	General University, February pay roll.....	576	920.83
Feb.	29.	E. B. Johnson, postage and freight.....	578	63.25
Feb.	29.	Tribune Job Printing Co., postals and circulars.....	579	28.15
March	1.	N. W. Telephone Exchange Co., telephone service.....	580	3.00
March	1.	Gene G. Banker, 24 hours writing	587	8.00
Feb.	29.	D. W. Sprague, office supplies.....	594	1.60
Mar.	31.	General University, March pay roll.....	682	920.83
Mar.	30.	E. B. Johnson, advertising, gas, express.....	683	75.25
Mar.	1.	Minneapolis Paper Co., 60 reams examination paper.....	684	50.40
Mar.	31.	D. W. Sprague, office supplies, rubber stamps.....	688	5.80
Mar.	23.	Emerson, Low & Barber, envelopes.....	689	16.35
April	1.	Gene G. Banker, labor on pay roll and ex. list.....	691	8.00
Mar.	4.	Louis Dreka, altering plate, and 170 diplomas.....	692	197.00
Mar.	10.	American Soda Works, pulverine.....	702	2.00
April	2.	Lotta Sweet, services as detective.....	710	45.00
April	18.	O. Gunnerson, labor on base ball field.....	711	10.50
Mar.	31.	N. W. Telephone Exchange Co., telephone service.....	713	1.00
Mar.	28.	The Swinburne Printing Co., letter and note heads.....	714	18.90
April	30.	General University, April pay roll.....	769	920.83
April	30.	E. B. Johnson, freight, stamps and gas.....	771	31.20

			No. voucher.	
April 30.	D. W. Sprague, journal, paste, rubber seals.....	772	\$1.90	
April 30.	The Miller Printing Co., 200 4-page lists Regents	775	8.75	
April 21.	M. A. Scovel, treas., membership in association, 1891-92....	776	10.00	
Mar. 29.	D. Ramaley & Son, 400 requisitions in duplicate.....	784	5.45	
April 1.	Morris & Wilson, 100 song books	788	50.00	
May 2.	D. W. Sprague, express.....	789	3.95	
May 2.	Gene G. Banker, work on expense list	790	7.33	
May 31.	General University May pay roll	851	920.83	
June 1.	E. B. Johnson, salaries of employes, postage.....	852	61.70	
June 1.	Wm H. Yattaw, salaries of employes, freight.....	853	19.38	
June 1.	D. W. Sprague, stamps, ledger, office supplies.	854	11.18	
June 1.	Gene G. Banker, 22 hours on expense list.....	855	7.33	
June 1.	Rickard & Gruman, 194 miscellaneous diplomas.....	886	97.00	
May 13.	Louis Dreka, diplomas and altering plate.....	857	30.00	
March 1.	D. Ramaley & Sons, printing synopses	858	25.00	
May 31.	Tribune Job Printing Co., 9000 calalogues, envelopes, note heads.....	862	995.68	
June 1.	The Miller Printing Co., printing programs.....	863	8.50	
May 31.	R. B. Lees, carpenter work and material.....	865	51.30	
May 17.	Morgan Envelope Co., 4000 envelopes	867	14.65	
June 2.	J. S. Pillsbury, various dinners to Regents.....	870	46.25	
June 1.	N. W. Telephone Exchange Co., telephone service.....	873	3.25	
May 31.	Tribune Job Printing Co., 1500 invitations envelopes, fold'g	876	33.00	
June 30.	General University, June pay roll.....	920	920.83	
July 1.	D. W. Sprague, etching one seal, supplies, express, paper..	921	7.68	
June 23.	Northwestern Star Oil Co, one-half barrel soap stock	922	6.98	
June 1.	O. T. Swett, 104¼ yards bunting.....	923	5.21	
May 21.	Davis, Kellogg, Severance, retainer and livery bill ...	925	56.25	
June 4.	F. A. Fisher & Co., adjusting fire loss, mian building.....	926	50.00	
July 1.	D. W. Sprague, freight and express.....	927	7.79	
June 30.	E. B. Johnson, gas, salaries of employes.....	929	693.61	
June 30.	Tribune Job Printing Co., note heads, wrappers, stateme'ts	934	15.25	
June 1.	Minn. Brush Electric Co., running 25 lamps in Col. June 1..	936	18.75	
July 31.	O. C. Merriman, treasurer, services for 1891-92.....	970	400.00	
July 1.	N. W. Telephone Exchange Co., telephone service.....	772	3.50	
July 31.	General University, July pay roll.....	978	270.83	
Total ..			\$15,713.22	

COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

1892		CURRENT EXPENSE.		
Aug. 3	E. B. Johnson, express, gas and freight.....	1	\$43.91	
April 13	Wright, Barrett & Stillwell, 8 reams 24 Dakota folio.....	2	24.96	
July 6	Ed. J. Conroy, 4½ days plastering and material.....	4	24.50	
July 30	Trainor Brothers, work on boiler and cementing floor.....	6	177.87	
Aug. 1	C. W. Meneilley, gold dust, candles, brooms	7	10.80	
July 28	Warner Brothers, bill of hardware.....	8	31.07	
July 31	Wm. H. Yattaw, cleaning buildings, work on campus	9	214.09	
July 10	Whitall, Tatum & Co., 1 box tubes, 1 box No. 4 checks	10	19.11	
July 1	Littlefield & Moore, rep. tin roof and gutters, main build.	12	36.54	
July 24	Union School Furniture Co., 100 French felt erasers	13	8.33	
July 14	E. L. Ames, painting, papering, kalsomining main building	14	172.30	
July 18	Nelson, Tenney & Co., 4 ft. wood.....	17	70.00	
July 31	A. H. Andrews & Co., 1 globe	18	45.00	
Aug. 31	College S. L. and A., August pay roll.....	52	366.67	
Sept. 2	Wm. H. Yattaw, labor and petty sundries.....	53	160.06	
Sept. 2	E. B. Johnson, gas and express.....	54	9.77	
Aug. 15	Wm. Petzold, equipment.....	55	143.54	
Aug. 31	Fred S. Jones, freight, postage, repairs on hydraulic press	56	23.79	
Sept. 3	E. A. Cuzner, freight and express.....	57	6.88	
May 26	James W. Queen & Co., apparatus.....	58	10.00	
July 27	S. S. Eustis, work on campus.....	59	36.00	
Sept. 1	E. L. Ames & Co., mouldings, painting and numbering P.O boxes..	60	8.72	
June 3	Elliot Brothers, electrical apparatus.	62	179.70	
Aug. 15	Wright, Barrett & Stillwell, examination paper.....	63	42.00	
Aug. 11	Naylor & Co, plumbers fittings.....	65	25.19	
Sept. 1	Morris & Wilson, toilet paper.....	66	25.50	
Aug. 31	Minneapolis Electric and Construction Co., electrical sup- plies and labor...	67	19.60	
Aug. 25	Northwestern Fuel Co., stove coal 4,000 lbs.....	68	17.00	
Sept. 1	Lockwood, Upton & Co., iron and labor	69	17.93	
Aug. 4.	Ed B. Gardiner, 175 hours draughting	70	35.00	
Aug. 25.	W. S. Nott Company, 500 feet hose and couplings.....	71	181.50	
Sept. 1.	D. W. Sprague, petty bills	73	5.85	
Aug. 26.	R. B. Lees, labor and material for repairs on buildings....	75	216.47	
Dec. 1.	A. C. Bausman, 4,000 each note heads and envelopes.....	78	22.00	
Aug. 31.	Tribune Job Printing Co, miscellaneous printing	79	93.75	
Sept. 1.	Glessner & Washburn, chairs, carpets, sofas and linoleum.	80	338.45	
July 1.	N. W. Telephone Exch. Co., rent of telephone 1 month.....	81	3.00	
Aug. 27.	Warner Brothers, miscellaneous hardware.....	90	36.67	
Sept. 30.	College S. L. A., September pay roll.....	136	4,941.67	
Sept. 30.	E. B. Johnson, stationery and gas.....	137	16.52	
Sept. 30.	Wm. H. Yattaw, salaries of employes and freight.....	138	31.29	

		No. voucher.	
Sept. 30.	D. W. Sprague, petty bills.....	139	\$17.88
Aug. 17.	Whitall, Tatum & Co., chemical supplies.....	140	20.00
Aug. 5.	Eimer & Amend, chemical supplies.....	141	603.64
Sept. 19.	James A. Dodge, freight and express.....	142	31.52
Oct. 1.	N. W. Telephone Exchange Co., telephone services.....	143	9.50
Sept. 30.	Tribune Job Printing Co., miscellaneous printing.....	146	16.75
Sept. 26.	Cody & Hineline, repairing, plumbing.....	150	7.17
Sept. 26.	Cody & Hineline, making sewer con'tn and put'g in sink...	151	45.00
Sept. 10.	Naylor & Co., tools.....	153	11.80
Sept. 26.	Wm. W. Folwell, salaries of employes.....	154	37.65
Sept. 1.	Eimer & Amend, apparatus.....	155	99.88
Aug. 6.	C. A. Smith & Co., bill of lumber.....	156	32.50
Sept. 28.	Ed B. Gardiner, 75 hours draughting.....	157	15.00
Sept. 18.	Morris & Wilson, books for library.....	159	21.00
Sept. 26.	Warner Brothers, miscellaneous hardware.....	160	25.50
Sept. 30.	Northwestern Fuel Co., fuel.....	161	166.44
Jan. 26.	W. S. Nott & Co., 26 $\frac{1}{4}$ feet endless belt.....	165	19.95
Oct. 1.	R. B. Lees, labor and material for repairs.....	166	64.05
July 13.	Mpls. Office and School Furn. Co., furn. for Pillsbury Hall.	180	100.00
Oct. 31.	College S., L. and A., October pay roll.....	203	4,976.67
Oct. 31.	E. B. Johnson, gas and express.....	204	45.99
Nov. 1.	Wm. H. Yattaw, salaries of employes.....	205	49.61
Oct. 31.	Tribune Job Printing Co., miscellaneous.....	206	43.00
Oct. 29.	James H. Bishop & Co., 10 M cards.....	208	11.70
Oct. 1.	Harrison & Smith, binding magazines.....	209	142.05
Oct. 28.	Morris & Wilson, 1 case Hoyt's toilet.....	210	11.00
Oct. 31.	D. W. Sprague, petty bills.....	211	9.81
Oct. 29.	Chas. D. Whitall & Co., books for library.....	212	27.50
Oct. 30.	Warner Brothers, miscellaneous hardware.....	214	6.22
Nov. 1.	T. L. Moody, water tax.....	215	20.75
Nov. 1.	Glessner & Washburn, shades, repair'g 2 tables, lounge seat.	216	11.00
Oct. 27.	Pioneer Fuel Co., Yough coal.....	217	341.38
Oct. 21.	Lyman-Elie Drug Co., chemical supplies.....	218	6.87
Oct. 22.	Cody & Hineline, 2 gate valves.....	220	13.00
Oct. 15.	W. W. Folwell, salaries of employes.....	221	25.00
Oct. 26.	C. S. Wentworth, 1 pressure regulator.....	222	18.00
Aug. 13.	Müller-Köpen, equipment.....	223	5.68
Nov. 1.	N. W. Telephone Exchange Co., telephone service.....	224	6.00
Nov. 1.	John C. Haire, Century Dictionary.....	226	10.00
Nov. 1.	Emerson, Law & Barber Co., stationery.....	229	7.20
Oct. 31.	W. K. Morrison & Co., miscellaneous hardware.....	252	3.57
Oct. 27.	Pioneer Fuel Co., Yough coal.....	297	84.75
Nov. 30.	College, S. L. and A., November pay roll.....	302	4,996.67
Nov. 27.	Pioneer Fuel Co., Yough coal.....	303	883.78
Nov. 30.	E. B. Johnson, gas, postage and freight.....	304	160.62
Nov. 25.	R. B. Lees, carpenter work and material.....	305	37.71
Nov. 30.	Wm. H. Yattaw, salaries of employes.....	306	49.50
Nov. 2.	Moffett, Bushnell & Co., one cabinet and three extra boxes	309	12.00
Sept. 30.	Marine Biological Laboratory, supplies.....	314	34.40
Nov. 13.	Rugg, Fuller, and Co., iron pipe and fittings.....	315	59.38
Dec. 1.	C. W. Meneilley, gold dust, matches, soap, etc.....	316	13.20
Nov. 2.	Ed. B. Gardiner, draughting.....	317	18.80
Nov. 28.	Cody and Hineline, labor done on steam plant.....	320	30.00
Nov. 2.	F. W. Sardeson, collection of fossils.....	321	65.00
Oct. 15.	Henry R. Jung, equipment.....	323	101.16
Sept. 26.	Minneapolis Office and School Furniture Co., one each, mineral and fossil cabinet.....	325	99.00
Nov. 8.	Century Oil Co., cylinder oil, flue cleaners.....	326	20.85
Nov. 30.	D. W. Sprague, petty bills.....	328	6.76
July 21.	L. Golaz, apparatus.....	332	40.00
Nov. 30.	Tribune Job Printing Co., 50 postals and 100 cards.....	333	2.25
Nov. 30.	Minneapolis Fuel Co., egg coal.....	349	30.00
Nov. 28.	Warner Brothers, hardware.....	355	4.10
Oct. 23.	Electric Construction and Supply Co., electrical apparatus	367	57.00
Nov. 27.	Geo. D. Shepardson, express.....	373	2.71
Nov. 21.	Frank Heywood & Co., 5,000 trays.....	381	28.75
Oct. 29.	Eimer & Amend, chemical supplies.....	382	42.05
Dec. 31.	College of S. L. and A., December pay roll.....	409	5,056.67
Dec. 31.	E. B. Johnson, gas, freight and express.....	410	43.85
Nov. 30.	Whitall, Tatum & Co., chemical supplies.....	411	17.20
Dec. 23.	Twin City Pavement Co., walks.....	412	30.10
Dec. 1.	Eimer & Amend, chemical supplies.....	413	23.95
Dec. 28.	Cody & Hineline Co., plumbing, labor and material.....	414	1.50
Sept. 4.	Northwestern Fuel Co., Yough coal.....	415	20.00
Dec. 28.	Morris & Wilson, one case toilet paper.....	416	8.00
Dec. 31.	Wm. H. Yattaw, salaries of employes.....	418	69.36
Dec. 5.	E. P. Sheldon, assistance in botanical laboratory.....	419	110.76
Dec. 1.	N. W. Telephone Exchange Co., telephone service.....	422	3.00
Dec. 31.	Pioneer Fuel Company, Yough coal.....	424	1,401.81
Dec. 31.	R. B. Lees, labor and material in boiler house.....	425	21.35
Dec. 29.	Glessner & Washburn, shades, cord and linoleum, main building.....	426	84.81
Dec. 31.	D. W. Sprague, petty bills.....	427	4.83
Dec. 31.	Tribune Job Printing Co., receipts, notices and account books.....	429	23.50
Oct. 29.	The Cambridge Scientf. Inst. Co., apparatus for department animal biology.....	430	73.13

			No. voucher.	
Dec. 22.	Warner Brothers, hardware for colosseum.....	445	\$34.83	
Dec. 22.	W. S. Nott & Co., white waste and packing.....	453	16.09	
Jan. 31.	College S. L. & A., January pay roll.....	496	5,236.67	
Jan. 30.	E. B. Johnson, gas, stationery	497	161.76	
Jan. 30.	D. W. Sprague, team work and express.....	498	4.60	
Jan. 30.	Wm. H. Yattaw, help, express and petty bills.....	499	54.74	
Jan. 29.	Minneapolis paper Co., 10,000 slips, ½ doz. mucilage bottles	500	5.85	
Jan. 1.	Northern Supply Co., painting roof on main building. . . .	502	187.00	
Jan. 30.	Warner Bros., miscellaneous hardware.....	503	47.47	
Jan. 15.	Cody & Hineline, plumbing work.....	505	5.99	
Jan. 27.	Century Oil Co., engine oil	507	7.50	
Feb. 1.	Northwestern Telephone Exchange Co., telephone services	508	6.00	
Jan. 4.	Alex P. Anderson, labor in Herbarium room.....	510	17.80	
Jan. 11.	Wm. D. Frost, 140 hours Herbarium work.....	511	21.10	
Jan. 19.	John Kelley, material and labor plastering.....	518	60.31	
Jan. 1.	James W. Day, ice.....	519	51.21	
Jan. 30.	John Kelley, plastering hall ceiling.....	520	38.00	
Feb. 1.	Tribune Job Printing Co., expense books, pay roll, blanks.	521	16.50	
Jan. 28.	Pioneer Fuel Co., Yough coal	524	1,390.74	
Dec. 22.	Wright, Barrett & Stillwell, Dakota folio cut ½.....	525	6.91	
Jan. 1.	H. R. Judson, historical atlas.....	526	30.00	
Jan. 23.	Minneapolis Fuel Co., coal.....	527	72.00	
Feb. 2.	Mrs. Mary Bowen, work in library	528	28.65	
Jan. 19.	John Schlener & Co., stationery.....	537	2.20	
Jan. 20.	Lyman Eliel Drug Co., glass tubing, test tubes, nested....	547	3.09	
Feb. 29.	College S. L. and A., February pay roll.....	576	5,036.67	
Feb. 25.	Pioneer Fuel Co., Yough coal.....	577	1,188.00	
Feb. 29.	E. B. Johnson, gas, salaries of employes.....	578	145.16	
Feb. 29.	Tribune Job Printing Co., 800 cards, 13 kinds and sizes....	579	27.00	
Mar. 1.	N. W. Telephone Exchange Co., telephone service	580	3.00	
Feb. 24.	Minneapolis Fuel Co., stove coal	582	48.00	
Feb. 10.	Eimer & Amend, chemical supplies	583	12.69	
Feb. 20.	Minn. Slate and Tile Co., 42 slate black-boards complete...	588	60.00	
Feb. 29.	Morris & Wilson, envelopes, toilet paper.....	589	8.32	
Feb. 17.	Standard Oil Co., ½ barrel cylinder oil.....	592	11.48	
Feb. 29.	D. W. Sprague, express, eyelets, shears, etc.....	594	6.15	
Feb. 25.	Warner Bros., miscellaneous hardware	595	11.88	
Feb. 27.	R. B. Lees, labor and material for general repairs.	596	37.90	
Feb. 29.	Wm. H. Yattaw, labor and express, petty expenses.....	597	45.78	
Feb. 19.	W. F. Porter & Co., 2¼ pounds metallic packing.....	604	1.68	
Feb. 1.	Trainor Bros., contract astronomical building and extras..	605	557.20	
Feb. 25.	Glessner & Washburn, repair rocker, seat on sofa.....	620	9.25	
Feb. 1.	Trainor Brothers, mason work and materials.....	598	47.88	
Mar. 31.	College of S. L. and A., March pay roll.....	682	5,036.67	
Mar. 30.	E. B. Johnson, salaries of employes, gas, express	683	116.10	
Mar. 1.	Minneapolis Paper Co., writing fluid, paper and erasers....	684	7.50	
Mar. 17.	Northwestern Fuel Co., coal.....	685	253.88	
Mar. 31.	D. W. Sprague, hardware, express.....	688	5.52	
Mar. 26.	R. B. Lees, carpenter work and material.....	690	58.45	
Mar. 31.	E. P. Sheldon, assistance in botanical department	693	84.00	
Mar. 11.	C. A. Smith & Co., bill of lumber.. ..	694	122.92	
Mar. 10.	American Soda Works, pulverine.....	702	4.00	
April 2.	Meyrowitz Brothers, apparatus.....	703	5.00	
Mar. 24.	Morris & Wilson, case toilet paper....	705	11.00	
Mar. 28.	Littlefield & Moore, new roof on rear part main building...	706	535.00	
Mar. 29.	The Cody-Hineline Co., soil pipe and fittings	707	4.50	
Oct. 29.	Cambridge Scien. Instru. Co., apparatus.	708	287.76	
Feb. 29.	Pioneer Fuel Co., Yough.....	712	724.30	
Mar. 31.	N. W. Telephone Exchange Co., telephone service....	713	1.00	
Mar. 22.	Northwestern Fuel Co., Yough coal	715	362.43	
Mar. 31.	Tribune Job Print'g Co., lists of officers, note circ'l'rs, report	716	26.65	
July 29.	Wm. W. Folwell, extra service teaching Greek and German	768	200.00	
Mar. 28.	Warner Brothers, miscellaneous hardware	696	9.72	
Mar. 30.	Wm. H. Yattaw, salaries of employes, freight.....	698	37.64	
April 30.	College S. L. and A., April pay roll.....	769	5,016.67	
April 30.	E. B. Johnson, gas, salaries of employes, express.....	771	94.19	
April 30.	D. W. Sprague, bulletin cards, 4 doz. opal watch glasses...	772	6.70	
May 1.	Wm. H. Yattaw, salaries of employes, repairs.....	773	69.86	
April 30.	The Miller Printing Co., envelopes, registers, 4-page list			
	Regents	775	8.75	
April 30.	Northwestern Fuel Co., Yough coal.....	777	429.17	
April 25.	Warner Brothers, tools.	778	9.47	
April 1.	Leonard & Ellis, one barrel machine oil.....	779	15.00	
April 19.	Maria L. Sanford, books for library	780	7.90	
April 9.	Ginn & Co., 2 years subscription to "Political Science"....	781	6.00	
Jan. 22.	Standard Oil Company, oil	783	6.60	
April 23.	Marder, Luse & Co., one Pearl press.....	786	65.00	
April 1.	Morris & Wilson, books and toilet paper.....	788	10.50	
May 2.	D. W. Sprague, express	789	3.95	
May 6.	E. E. McDermott, private instruction... ..	792	50.00	
March 10.	Eastern Electric Light and Storage Battery Co., chemical			
	apparatus.	800	20.00	
May 31.	College S. L. and A., May pay roll.....	851	5,006.67	
May 31.	E. B. Johnson, stamps, gas, express, labor.....	852	94.03	
June 1.	Wm. H. Yattaw, labor, cleaning and express	853	70.94	
June 1.	D. W. Sprague, map and mounting same, desk pads.....	854	5.23	

		No. voucher.	
April 12.	Eimer & Amend, chemical supplies	859	\$67.93
April 25.	Warner Brothers, miscellaneous hardware	860	9.36
April 26.	Northwestern Fuel Co., Yough coal	861	660.95
April 1.	C. W. Meneilley, groceries	864	5.80
May 31.	R. B. Lees, carpenter work and material	865	14.40
June 1.	James A. Dodge, freight, express, petty expenses	866	74.40
May 17.	Wright, Barrett & Stillwell, 1,000 sheets manilla paper	868	6.25
April 4.	Mary Bowen, labor in library	869	12.30
May 25.	Morris & Wilson, 1 box toilet paper	872	8.00
June 1.	N. W. Telephone Exchange Co., telephone service	273	3.25
May 31.	Tribune Job Printing Co., 400 invitations, 6 directory signs	876	7.50
June 1.	R. Friedlander & Son, equipment	905½	120.19
June 30.	College S. L. and A., June pay roll	920	4,800.00
July 1.	D. W. Sprague, slides, laundry, work books	921	8.05
June 8.	Henry F. Nachtrieb, sundry petty items	928	19.97
June 30.	E. B. Johnson, gas, postage and stationery	929	81.02
June 3.	Henry F. Shufeldt & Co., 2 barrels alcohol	930	56.40
June 30.	Wm. H. Yattaw, salaries of employes, insurance	931	134.73
June 13.	M. L. Sanford, paid Madame Pote, services as instructor ..	932	14.80
June 6.	Glessner & Washburn, mirror, shade, cleaning carpets, rollers	933	44.13
June 30.	Tribune Job Printing Co., admission cards, circulars	934	9.50
June 30.	Warner Bros, miscellaneous hardware	935	33.46
June 6.	D. Appleton & Co., 1 book for library	937	6.00
July 1.	N. W. Telephone Exchange Co., telephone service	972	3.50
July 31.	College S. L. A., July pay roll	978	405.00
Total			\$68,931.00

SCHOOL OF AGRICULTURE.

CURRENT EXPENSE.

June 30.	Northwestern Fuel Co., Yough. and stove coal	15	\$305.67
July 31.	Tribune Job Printing Co., mem. slips, letter heads	21	11.75
Aug. 31.	School of Agriculture, August pay roll	52	544.92
Sept. 1.	D. W. Sprague, petty bills	73	5.23
Aug. 6.	Nelson Larson, salaries of employes	83	17.60
Aug. 25.	C. J. Buell, labor and material for repairs at state farm school	85	53.65
Aug. 29.	W. M. Hays, freight, postage and express	86	8.80
June 22.	Northrup, Braslan, Goodwin Co., seeds	98	8.00
Aug. 19.	Dispatch Printing Co., stationery	117	18.30
Sept. 30.	School of Agriculture, September pay roll	136	671.67
Sept. 30.	D. W. Sprague, petty bills	139	2.11
Sept. 30.	John A. Schlener & Co., 1 pint red ink	147	1.00
Sept. 28.	H. W. Brewster, freight and postage	163	13.13
Sept. 21.	Lynch, Bakeman & Co., mill tools	164	17.55
Sept. 30.	Clinton D. Smith, petty expenses	183	2.77
Sept. 29.	Clinton D. Smith, freight and express	185	13.70
Sept. 9.	James H. Bishop & Co., 15M envelopes	187	48.75
Sept. 19.	I. Gutzwiller, Jr., 15M diary circulars	194	125.00
Sept. 2.	Northwestern Photo Engraving Co., 2 etchings of building and floor plan	200	5.00
Oct. 31.	School of Agriculture, October pay roll	203	976.67
Oct. 30.	John A. Schlener & Co., stationery	207	9.25
Oct. 28.	Morris & Wilson, books for library	210	12.50
Oct. 31.	D. W. Sprague, petty bills	211	2.50
Oct. 16.	Boutelle Bros., commodes and bureaus	231	16.50
Oct. 8.	P. Howard, wagon repairs	232	6.75
Oct. 8.	D. D. Merrill Company, 50 Curtiss book-keeping. <i>Special</i> ..	233	32.50
Oct. 1.	Rickard & Gruman, filling in names, dates in diplomas ..	234	8.00
Oct. 21.	Lund & Nerli, labor on cess-pool	235	30.62
Oct. 21.	M. B. Whitney, preparing tree specimens for museum	236	8.00
Oct. 20.	C. C. Curtiss, 8½ dozen writing books	237	9.16
Oct. 1.	Farm, Stock and Home, advertising	238	25.00
Oct. 1.	H. Kelley & Co., general repairs	239	7.72
Oct. 9.	G. F. Shaw, papering and repairing	240	5.40
Oct. 27.	H. W. Brewster, freight, postage and repairs	241	8.10
Oct. 27.	H. W. Brewster, salaries of employes	241	55.50
Oct. 16.	P. V. Collins, advertising	242	25.00
Oct. 22.	W. P. Hemenway, carpenter work and material	243	60.51
Oct. 3.	Nelson Larson, repairing washout on roads	251	16.75
Oct. 29.	Clinton D. Smith, express	272	.85
Oct. 29.	Clinton D. Smith, office work	273	1.00
Oct. 2.	T. L. Haecker, expense incurred in examining stock	275	15.76
Oct. 23.	N. W. Photo Engraving Co., original, 15 electrotypes	282	12.50
Oct. 24.	Jas. J. Hill, stock	295	150.00
Nov. 30.	School of Agriculture, November pay roll	302	1,069.13
Nov. 17.	Minneapolis Paper Co., 1 ream Dak. demy	313	3.60
Nov. 30.	D. W. Sprague, petty bills	328	9.75
Nov. 30.	John A. Schlener & Co., stationery	329	11.50
Nov. 30.	Tribune Job Printing Co., library catalogue, receipts, etc. .	333	27.25
Nov. 28.	S. E. Olson & Co., miscellaneous supplies	334	63.11
Nov. 3.	W. K. Morrison & Co., hardware	335	8.50
Oct. 16.	Squires & Todd, bill of lumber	337	40.10

			No. voucher.	
Nov.	21.	Samuel B. Green, elm trees around farm school.....	338	\$40.10
Oct.	15.	W. F. Porter & Co., putting radiators in residence at state farm.....	340	200.00
Nov.	21.	Held & Gruenhagen, miscellaneous hardware.....	341	12 85
Oct.	27.	Pioneer Fuel Co., 14 cords, 4 foot pine slabs.....	343	49.00
Nov.	26.	Elliott & Pauly, tools.....	344	72.00
Nov.	4.	Sanford Niles, subscription for periodicals.....	345	27.00
Nov.	16.	St. Anthony Furniture Co., 8 tables.....	346	40.00
Dec.	1.	Northwestern Agriculturist, advertising.....	348	25.00
Nov.	30.	Minneapolis Fuel Co., stove coal.....	349	748.88
Nov.	1.	E. A. Webb, advertising.....	350	25.00
Nov.	30.	Clinton D. Smith, carrying milk, 500 diary columns, express.....	386	22 10
Nov.	30.	Clinton D. Smith, stock, freight and transportation.....	388	1,036.39
Nov.	2.	C. L. Moffatt, blacksmithing.....	397	1.25
Nov.	11.	Minnesota Linseed Oil Works, oil meal.....	398	23.00
Nov.	6.	Fairbanks, Morse & Co., scales and grain wagon.....	399	24.00
Sept.	26.	T. L. Haecker, freight and transportation.....	402	20.96
Dec.	31.	School of Agriculture, December pay roll.....	409	1,233 10
Dec.	28.	Morris & Wilson, 14 mailing tubes.....	416	.50
Dec.	8.	Minneapolis Fuel Co., stove coal.....	421	285.38
Dec.	31.	D. W. Sprague, petty bills.....	427	2.00
Dec.	31.	D. W. Sprague, petty bills.....	427	2.08
Dec.	31.	Tribune Job Printing Co., lists, reports and slips.....	429	23.75
Jan.	1.	Farm, Stock and Home, stamps and printing.....	439	20.50
Nov.	27.	W. F. Porter & Co., ventilation in dormitory building.....	440	729.94
Dec.	17.	Twin City Supply Co., text books.....	441	6.24
Dec.	28.	H. W. Brewster, postage, ink, pens and express.....	442	16.20
Nov.	3.	Minneapolis Tubular Well Co., repairing well.....	443	12.00
Dec.	2.	Joseph Congdon, repairs in dormitory building.....	444	127.55
Dec.	29.	W. K. Morrison & Co., hardware.....	457	3.62
Dec.	8.	Clinton D. Smith, milk from creamery.....	467	83.60
Nov.	16.	R. S. Kingman, stock.....	471	55.95
Dec.	14.	J. H. Cummings, stock—cows.....	470	150.00
Dec.	23.	J. S. Lawson, stock—cows.....	472	53.00
Dec.	9.	Chas. T. Leonard, shades and cord.....	476	33.60
Dec.	18.	Minneapolis Fuel Co., coal.....	477	79.27
Nov.	30.	Northwestern Fuel Co., coal.....	479	17.30
Dec.	7.	Cornish, Curtiss & Greene, cans and hose.....	482	36.80
Dec.	21.	Minnesota Linseed Oil Works, oil meal.....	486	23.00
Nov.	10.	H. C. Adams, stock—Jersey cow.....	487	150.00
Dec.	16.	Clinton D. Smith, express, freight, soap, lamps, mats.....	492	115.84
Dec.	28.	W. M. Hays, money advanced for premiums.....	495½	50.00
Jan.	31.	School of Agriculture, January pay roll.....	496	1,165.48
Jan.	30.	D. W. Sprague, sundry petty expenses.....	498	3.20
Jan.	29.	Minneapolis Paper Co., 240 blotters.....	500	3.40
Jan.	28.	Pioneer Fuel Co., Yough.....	524	56.30
Jan.	23.	Minneapolis Fuel Co., stove coal.....	527	273.00
Jan.	27.	H. W. Brewster, express, freight, horse-shoeing, stove rep.....	530	11.02
Dec.	31.	Salisbury, Rolph & Co., hospital beds, mattresses and casters.....	531	51.15
Jan.	12.	Held & Gruenhagen, miscellaneous hardware.....	532	15.80
Dec.	16.	Lund & Nerli, labor on cesspool.....	533	15.00
Jan.	12.	Kennedy Bros., gymnasium supplies.....	534	20.65
Jan.	20.	W. J. Hawkins, general plumbing repairs.....	535	48.90
Jan.	1.	Martin Peterson, material and labor plastering cistern.....	536	19.00
Jan.	19.	John Schlener & Co., stationery.....	537	3.55
Dec.	23.	Pioneer Fuel Co., 4 ft. slabs.....	538	7.88
Jan.	28.	Clinton D. Smith, express, freight and sundries.....	553	46.21
Jan.	18.	Minnesota Linseed Oil Works, 1½ tons oil meal.....	554	34.50
Jan.	28.	Clinton D. Smith, freight, express, telegram.....	555	12.01
Jan.	5.	Crescent creamery, milk.....	556	630.77
Mar.	24.	R. Douglass & Sons, plants.....	558	10.50
Dec.	31.	Harrison & Smith, reports, records, score cards.....	559	15.00
Jan.	9.	D. H. Roe & Co., 12 rennet tests.....	565	12.00
Nov.	28.	Fairbanks, Morse & Co., time and expense setting dmt. scale and pulleys.....	567	18.63
Jan.	2.	J. M. Locke, painting and material.....	568	17.13
Jan.	8.	G. F. Shaw, oil finish office in dairy hall.....	570	16.00
Jan.	5.	Brooks Brothers, bill of lumber.....	571	32.68
Feb.	29.	School of agriculture, February pay roll.....	576	1,086.24
Feb.	29.	Tribune Job Printing Co., postals and circulars.....	579	2.00
Feb.	24.	Minneapolis Fuel Co., stove coal.....	582	147 00
Feb.	24.	Louis Dreka, altering plate and 30 diplomas.....	586	57.50
Feb.	29.	D. W. Sprague, petty bills.....	594	7.50
Feb.	25.	H. W. Brewster, express, postage and repairs.....	601	12.20
Jan.	29.	James H. Bishop & Co., 5,000 blanks to order.....	602	10.25
Feb.	19.	W. F. Porter & Co., valves and couplings.....	604	9.82
Feb.	25.	Glessner & Washburn, 1 desk.....	620	28.00
Mar.	1.	W. H. Phillips, services as cheese instructor 6 weeks.....	632	500.00
Feb.	27.	Clinton D. Smith, freight, express, stamps.....	633	25.68
Feb.	27.	Clinton D. Smith, freight, express, Jersey cow, labor.....	636	109.81
Jan.	30.	Harrison & Smith, work reports.....	639	3.50
Feb.	10.	Northwestern Fuel Co., coal.....	641	8.65
Jan.	30.	Crescent Creamery Co., milk.....	642	269.34
Feb.	26.	J. H. Kerrick, repairing piston to engine.....	643	5.00
Jan.	6.	Held & Gruenhagen, miscellaneous hardware.....	644	7.40
Jan.	26.	Fairbanks, Morse & Co., pulleys and belt.....	649	5.19

		No. voucher.	
Jan. 23.	Cornish, Curtis & Green, salt, butter color press hoop.....	651	\$9.96
Feb. 20.	Creamery and Diary, advertising.....	652	8.00
Feb. 18.	Minnesota Linseed Oil Works, one ton oil meal.....	653	21.00
Jan. 11.	M. B. Whitney, carpenter work and material.....	654	58.43
	W. B. Whitney, labor in cheese room and dairy.....	656	39.36
Mar. 31.	School of Agriculture, March pay roll.....	682	1,205.93
Mar. 30.	Minneapolis Paper Co., three gro. Gillotts pens.....	684	2.55
Dec. 4.	Minneapolis Fuel Co., coal.....	686	135.00
Mar. 28.	Pioneer Fuel Co., pine slabs.....	687	141.35
Mar. 30.	D. W. Sprague, hardware and chemicals.....	688	22.02
Mar. 28.	Swinburn Printing Co., bill heads and cutting paper.....	714	1.90
Mar. 31.	Tribune Job Printing Co. 300 examinations.....	716	2.50
Jan. 9.	D. D. Merrill & Co., 150 tablets.....	717	9.00
Jan. 25.	Lynch, Bakeman & Co., materials for repairs and labor...	718	25.13
Mar. 24.	S. E. Olson & Co., linoleum and duck.....	719	29.76
Mar. 12.	Joseph Zesbaugh, moulding and backing.....	720	5.50
Dec. 18.	W. K. Morrison & Co., hardware.....	743	1.30
Mar. 24.	E. J. Graham, service as asst. butter maker.....	745	60.00
Mar. 29.	Clinton D. Smith, advertising.....	746	50.40
Mar. 29.	Clinton D. Smith, freight, hardware and supplies.....	747	13.33
Dec. 29.	Clinton D. Smith, salaries of employes, lamps, freight.....	748	56.30
Feb. 25.	Minneapolis Fuel Co., coal.....	751	42.90
Dec. 31.	Gust Lagerquist, one handpower elevator.....	753	200.00
Mar. 22.	Noyes Bros. & Cutler, sulphuric acid.....	755	7.02
Dec. 23.	Cornish, Curtis & Greene, large and small vats and whey strainer.....	758	249.00
Feb. 29.	Cornish, Curtis & Greene, cheese boxes, blanks, thermometer	749	15.10
Mar. 12.	Minnesota Linseed Oil Works, one ton oil meal.....	763	21.00
Feb. 20.	Pioneer Fuel Co., coal.....	764	8.63
Mar. 16.	Northwestern Fuel Co., coal.....	765	25.87
Nov. 21.	Fairbanks, Morse & Co., 1,050 scale with double beam.....	766	73.00
Jan. 2.	Joseph Congdon, 1 pair stairs.....	767	35.00
April 30.	School of Agriculture, April pay roll.....	769	826.77
April 30.	D. W. Sprague, artists supplies sub. of "Literary Digest"...	772	4.87
Mar. 29.	D. Ramaly & Son, invitations, programs, express.....	784	6.66
April 26.	H. W. Brewster, freight, express and postage.....	793	19.79
April 27.	C. L. Moffatt, blacksmith repairs.....	794	5.00
April 7.	C. H. Congdon, 25 music lessons.....	795	75.00
April 8.	Campus Quartette, singing at commencement exercises....	796	15.00
Mar. 26.	W. K. Morrison & Co., bill of hardware.....	797	5.86
Mar. 30.	Minneapolis Fuel Co., coal.....	798	168.75
April 20.	W. P. Hemenway, bill of lumber.....	802	14.65
April 29.	Clinton D. Smith, labor grading, team and men.....	829	38.29
April 26.	Clinton D. Smith, freight, milk, hardware, groceries.....	830	13.98
April 21.	Pioneer Fuel Co., coal.....	833	7.50
April 26.	Pillsbury-Washburn Co., shorts and bran.....	845	26.00
Mar. 31.	Minnesota Linseed Oil Works, 2½ tons oil meal.....	846	52.50
Dec. 8.	Northwestern Fuel Co., pea coal.....	848	32.23
May 31.	School of Agriculture, May pay roll.....	851	865.03
June 1.	D. W. Sprague, sewer pipe, jars 1 gallon and 5 gallon.....	854	10.98
April 30.	W. K. Morrison & Co., 2 boxes 11¾ x 14¾, glass.....	871	6.38
April 8.	Joseph Zesbaugh, frames for collection of grasses.....	874	11.00
May 2.	Held & Gruenhagen, glass and tacks.....	875	7.95
May 14.	S. E. Olson & Co., 16 yards linoleum.....	877	8.00
June 1.	R. C. Clark, inspecting 2 boilers in school.....	878	6.00
May 28.	Clinton D. Smith, freight, grading, mason work.....	885	66.76
May 5.	Minnesota Linseed Oil Works, 1 ton oil meal.....	890	21.00
May 11.	Pillsbury-Washburn Co., bran.....	898	20.00
Oct. 21.	H. Kelley & Co., plumbing repairs.....	900	5.70
May 30.	Blackman & Post, soil pipe and fittings.....	905	252.53
June 30.	School of Agriculture, June pay roll.....	920	831.19
July 1.	D. W. Sprague, 2 yards manilla drawing paper.....	921	.45
June 27.	Tribune Job Printing Co., 10,000 catalogues, College of Agr	938	85.00
June 14.	J. A. Vye, stamps, postal cards, wrappers.....	939	11.82
June 20.	Chas. Hawkinson, trees and shrubs.....	940	35.80
May 31.	Harrison & Smith, milk record No. 8,510.....	948	6.50
May 28.	Northrup, Braslan & Goodwin, seeds.....	949	6.18
June 1.	Pillsbury-Washburn Co., 3,000 lbs. bran.....	953	15.00
June 10.	Cornish, Curtis & Green, 2 dozen test tubes.....	957	8.00
June 15.	Brooks Bros., screen doors and windows.....	961	13.40
June 10.	Union Railway Storage Co., 100 feet 6 inch s pipe.....	962	10.50
June 21.	Minnesota Linseed Oil Works, 1,500 lbs. oil meal.....	964	16.50
April 6.	McDonald Bros., jars.....	968	8.48
June 20.	Chas. T. Leonard, 1 awning.....	969	3.50
July 31.	School of Agriculture, July pay roll.....	978	526.51
Total.....			\$21,866.82

VETERINARY DEPARTMENT.

CURRENT EXPENSE.

June 9.	Tribune Job Printing Co., envelopes and note-heads.....	22	\$6.00
April 2.	Chas D. Whitall & Co., 1 cap hektograph, type-writ. paper	23	6.40
July 8.	W. P. Hemenway, repairs on veterinary hospital.....	24	60.00
July 7.	Experiment station, hay.....	25	25.56
Aug. 31.	Veterinary department, August pay roll.....	52	135.00

		No. voucher.	
Sept. 1.	D. W. Sprague, journals and veterinary reviews.....	73	\$9.00
Aug. 29.	Noyes Brothers & Cutler, chemical supplies.....	87	159.62
Aug. 1.	N. W. Scavenger Co., removing dead horses from farm.	88	5.00
Aug. 27.	Warner Brothers, carriage paint and sash cord.....	90	3.52
Sept. 1.	Olaf Schwartzkopff, freight, express, postage.....	91	14.55
Aug. 17.	Held & Gruenhagen, paint, brushes and galvanized pipe..	92	7.65
Sept. 30.	Veterinary department, September pay roll	136	135.00
Sept. 30.	D. W. Sprague, petty bills.....	139	7.00
Sept. 30.	Tribune Job Printing Co., print. labels, prescrip. and cards	146	7.50
Sept. 7.	Experiment station, feed	182	38.93
Oct. 31.	Veterinary Department, October pay roll.....	203	329.00
Oct. 31.	Tribune Job Printing Co., miscellaneous.....	206	5.00
Oct. 30.	John A. Schlener & Co., stationery.....	207	.54
Oct. 31.	D. W. Sprague, petty bills	211	4.97
Sept. 9.	Noyes Brothers & Cutler, supplies for veterinary dept.....	244	75.64
Oct. 13.	Adam Lindig, hay	245	9.37
Aug. 31.	James W. Queen & Co., tools and veterinary supplies.....	246	78.91
Oct. 17.	E. Cooley, oats.....	247	19.00
Oct. 15.	S. G. McMillan, converting car barn into vet. hospital....	248	847.00
Oct. 7.	S. B. Loye & Sons, dusters, brushes, blankets, soap.....	249	25.00
Oct. 30.	Chas. R. Aldrich, plans, specifications, supt. vet. hospital.	250	4.00
Nov. 30.	Veterinary department, November pay roll.....	302	341.00
Nov. 30.	D. W. Sprague, petty bills	328	4.50
Nov. 30.	John A. Schlener & Co., stationery.....	329	3.71
Nov. 30.	Minneapolis Fuel Co., coal	349	18.75
Nov. 17.	E. Cooley, oats and hay.....	351	45.48
Nov. 21.	Adam Lindig, hay and straw.....	352	21.10
Nov. 5.	Experiment station, hay, oats and bran.....	353	15.70
Oct. 29.	O. C. Gregg, hay, oats and bran.....	354	14.48
Nov. 28.	Warner Brothers, miscellaneous hardware.....	355	96.84
Nov. 1.	Glessner & Washburn, desks, office chairs, oilcloth....	356	118.00
Nov. 17.	Boutell Brothers, stove, elbows and dampers.....	357	21.50
Nov. 30.	Noyes Bros. & Cutler, chemical supplies.....	358	84.05
Dec. 31.	Veterinary department, December pay roll.....	409	311.00
Dec. 31.	D. W. Sprague, petty bills.....	427	3.25
Dec. 22.	Warner Brothers, miscellaneous hardware.....	445	41.93
Oct. 15.	Mpls Office & School Furn. Co., slate crayons and erasers.	446	7.00
Dec. 26.	Wm. Wheeler & Co., glass, labor, glazing.....	447	11.91
Nov. 2.	J. H. Hagen & Co., paint, signs.....	448	10.00
Dec. 1.	Noyes Bros. & Cutler, microscope, case and chem. supplies	449	193.01
Dec. 26.	Adam Lindig, hay and straw	450	29.25
Dec. 28.	Olaf Schwartzkopff, stamps and express.....	451	14.32
Jan. 31.	Veterinary department, January pay roll.....	496	311.00
Jan. 30.	D. W. Sprague, oil and expense removing horses.....	498	5.05
Jan. 15.	Cody & Hineline, plumbing repairs.....	505	1.75
Jan. 23.	Minneapolis Fuel Co., coal	527	45.00
Feb. 29.	Veterinary department, February pay roll.....	576	311.00
Feb. 24.	Minneapolis Fuel Co., stove coal.....	582	45.00
Feb. 29.	The Cody-Hineline Co., repairing iron pipe.....	590	6.70
Feb. 29.	D. W. Sprague, 500 bill heads.....	594	2.75
Feb. 18.	E. Cooley, rye straw, bran, hay.....	606	60.28
Jan. 24.	E. L. Miller, laundry, 1 stove, dogs feed, files.....	607	6.65
Feb. 18.	John Gillesby, removing dissected horses.....	608	16.00
Mar. 31.	Veterinary department, March pay roll.....	682	311.00
Mar. 30.	E. B. Johnson, water tax	683	1.55
Dec. 4.	Minneapolis fuel Co., coal.....	686	45.00
Mar. 31.	D. W. Sprague, galv. pails, express.	688	6.25
April 11.	Minneapolis Street Ry. Co., rent of University barn farm.	709	180.00
Mar. 1.	Journal of Comparative Med., subscription and adv.	721	23.00
Jan. 25.	Adam Lindig, hay	722	11.52
Dec. 31.	Noyes Brothers & Cutler, apparatus and supplies.....	723	21.25
Mar. 31.	Olaf Schwartzkopff, express, repairs and supplies.....	724	14.49
Feb. 1.	Robinson & Mead, hauling horse.....	725	8.00
Oct. 29.	Warner Brothers, miscellaneous hardware	726	54.55
Dec. 23.	E. Cooley, hay and rye straw	727	32.31
Feb. 26.	John Gillesby, removing 1 load dissected horses.....	728	5.00
Jan. 11.	Nichols & Dean, 12 pr. cork pads.....	729	9.20
Jan. 2.	Joseph Congdon, carpenter work in vet. surg. barn.....	730	8.90
Nov. 1.	Glessner & Washburn, book-case, desk, tables, matt's., bed	731	38.40
April 30.	Veterinary department, April pay roll.....	769	260.00
May 2.	Minneapolis Street Railway Co., rent of University barn.	785	30.00
Mar. 30.	Minneapolis Fuel Co., coal.....	798	15.00
May 31.	Veterinary department, May pay roll.....	851	305.00
June 1.	E. B. Johnson, 2 horses for dissecting.....	852	4.00
June 1.	D. W. Sprague, oil, hardware, coal, surg. supplies.....	854	8.75
April 25.	E. Cooley, hay, oats, rye straw.....	879	22.23
May 31.	Minneapolis Street Railway Co., rent of Union Ave. barn.	880	30.00
June 1.	G. C. Merritt, labor.....	881	6.00
June 30.	Veterinary department, June pay roll.....	920	100.00
July 1.	D. W. Sprague, moving stoves, water tax.....	921	2.23
June 19.	Noyes Bros. & Cutler, veterinary supplies.....	943	41.68
June 30.	Minneapolis Street Ry. Co., rent of University Ave barn..	971	30.00
July 31.	Veterinary department, July pay roll	978	100.00
Total.....			\$5,998.43

MILITARY TACTICS.

		CURRENT EXPENSE.	No. voucher	
July	31.	Wm. H. Yattaw, labor in Colosseum	9	\$44.25
June	30.	Northwestern Fuel Co., stove coal	15	12.90
Sept.	1.	Glessner & Washburn, 37½ yds carpet, making same, rent of bureaus	80	32.76
Sept.	30.	Military Tactics, September pay roll	136	65.00
Oct.	31.	Military Tactics, October pay roll	203	15.00
Oct.	31.	Tribune Job Printing Co., 100 circulars	206	2.50
Oct.	30.	John A. Schlener & Co., stationery	207	1.15
Nov.	30.	Military Tactics, November pay roll	302	115.00
Nov.	21.	Robert C. Kretschmar, 8 trumpets with "F" slide	310	44.00
Nov.	20.	Morris & Wilson, Yale padlocks	324	4.78
Dec.	31.	Military Tactics, December pay roll	409	65.00
Jan.	31.	Military Tactics, January pay roll	496	95.00
Jan.	30.	Wm. H. Yattaw, 1½ days carrying coal in Colosseum	499	2.25
Feb.	29.	Military Tactics, February pay roll	576	95.00
Feb.	29.	E. B. Johnson, stamps, labor	578	6.10
Feb.	29.	D. W. Sprague, six copies Drill Regulations	594	2.86
Mar.	31.	Military Tactics, March pay roll	682	95.00
Mar.	31.	D. W. Sprague, two copies Regulations	688	1.20
Apr.	30.	Military Tactics, April pay roll	769	95.00
May	31.	Military Tactics, May pay roll	851	95.00
June	30.	Military Tactics, June pay roll	920	95.00
Total				\$984.75

MECHANIC ARTS.

		CURRENT EXPENSE.		
July	31.	Wm. H. Yattaw, cleaning and other labor	9	\$71.37
July	18.	Nelson, Tenney & Co., 4 ft. wood	17	22.50
Sept.	2.	E. B. Johnson, gas	54	9.26
Aug.	15.	Wright, Barrett & Stillwell, examination paper	63	14.00
Aug.	31.	Tribune Job Printing Co., printing 700 letter heads	79	3.50
July	1.	North Western Telephone Exchange Co., telephone service	81	1.50
Aug.	17.	Tuerk Hydraulic Power Co., 1 motor complete	94	45.00
Aug.	7.	Henry R. Worthington, one 1½ hot water meter	95	52.00
Aug.	29.	J. C. Connell, labor and material on furnace	96	18.00
Sept.	30.	Mechanic Arts, September pay roll	136	1,095.00
Sept.	30.	E. B. Johnson, freight, express and gas	137	31.11
Sept.	30.	Wm. H. Yattaw, 4 wrenches	138	2.50
Sept.	30.	Tribune Job Printing Co., printing cards and slips	146	4.50
Sept.	30.	John A. Schlener & Co., imp. book, damp bowl and br'sh's.	147	2.75
Sept.	26.	Cody & Hineline, put in urinal and repair closet tanks	149	20.50
Sept.	30.	Geo. D. Shepardson, freight and postage	167	7.32
Aug.	28.	R. E. Kidder, 1 sawing machine and flour carrier	168	196.20
Aug.	21.	Moffet & Thurston, stationery	169	18.75
Sept.	21.	Thos. H. Recoes, 1 saw and repairs	170	4.50
Oct.	1.	Wm. Wheeler & Co., making oil shield for engine	171	4.50
Sept.	29.	W. S. Nott Company, 75 lbs. white waste and belting	172	15.60
Sept.	12.	Wheeler Condenser and Eng. Wks., 1 pat cond., 1 air pump	201	275.00
Oct.	15.	D. W. Sprague, petty bills	202	3.65
Oct.	31.	Mechanic Arts, October pay roll	203	1,115.00
Oct.	31.	E. B. Johnson, gas, express, etc.	204	9.62
Oct.	31.	Tribune Job Printing Co., miscellaneous work	206	7.00
Oct.	31.	John A. Schlener & Co., stationery	207	.54
Oct.	31.	D. W. Sprague, petty bills	211	6.65
Oct.	29.	Chas. D. Whitall & Co., 1 letter hektograph	212	3.50
Nov.	1.	F. L. Moody, water tax	215	5.00
Oct.	27.	Pioneer Fuel Co., Cumberland coal, 4,000 pounds	217	4.00
Oct.	21.	Lyman-Eliel Drug Co., chemical supplies	218	4.20
Oct.	1.	J. S. Pillsbury, freight on brick for Mech. Arts Building ..	225	403.81
Oct.	31.	W. K. Morrison & Co., miscellaneous hardware	252	19.35
Sept.	18.	C. Hennecke & Co., plaster casts and wire models	253	36.78
Sept.	19.	Minneapolis Paper Co., 1 roll 36 inch blue print	254	6.00
Oct.	27.	W. C. Weeks, labor on maps	255	9.30
Oct.	27.	W. R. Hoag, 1 marine chronometer	256	80.00
Oct.	1.	Ill. Electric Material Co., electrical supplies	257	48.05
Oct.	31.	Elliot & Pauly, miscellaneous hardware and tools	258	99.47
Oct.	21.	American Bell Telephone Co., electrical apparatus	259	7.50
Oct.	6.	A. C. and C. F. Peters, artist's supplies	260	15.55
Oct.	27.	W. R. Hoag, apparatus, freight, and postage	261	14.75
Sept.	26.	Edison Gen. Electric Co., electrical apparatus	262	132.55
Oct.	29.	Geo. D. Shepardson, freight and express	263	8.82
Aug.	31.	Young & Sons, repairing and adjusting teloscope	264	35.00
Nov.	30.	Mechanic Arts, November pay roll	302	1,115.00
Nov.	27.	Pioneer Fuel Co., Yough. Coal	303	7.00
Nov.	30.	E. B. Johnson, gas, salaries of employes, stamps	304	10.88
Nov.	25.	R. B. Lees, fixing sink in Mechanics hall	305	2.55
Nov.	13.	Rugg, Fuller & Co., pipe, valves and fittings	315	37.72
Nov.	30.	D. W. Sprague, petty bills	328	9.22
Nov.	30.	John A. Schlener & Co., office supplies	329	3.85
Nov.	3.	W. K. Morrison & Co., miscellaneous hardware	335	10.43
Sept.	12.	W. K. Morrison & Co., miscellaneous hardware	336	5.00

			No. voucher.	
Oct.	16.	Squires & Todd, bill of lumber.....	337	\$80. 87
Nov.	26.	Elliott & Pauly, tools.....	344	19.50
Nov.	27.	W. W. Sykes & Co., run sewer to inside mechanical hall....	347	18.00
Nov.	20.	Wm. A. Pike, freight and express.....	359	16.25
Nov.	27.	Wm. A. Pike, postage and freight.....	360	5.59
Oct.	8.	W. C. Hill, freight and express.....	861	17.36
Oct.	15.	Robinson & Cary Co., tools.....	362	16.07
Oct.	3.	H. L. Day, tools.....	363	39.85
Oct.	9.	N. W. Star Oil Company, cylinder, lard, linseed oils....	364	10.39
Nov.	6.	C. A. Hoffman, apparatus.....	365	7.50
Oct.	16.	O. H. Peck, apparatus.....	366	11.05
Oct.	23.	Electric Construction and Supply Co., electrical apparatus	367	51.85
Oct.	12.	Naylor & Company, plumbing supplies repairs.....	368	56.02
Nov.	2.	Naylor & Company, plumbing fittings for repairs.....	369	8.57
Oct.	30.	Andrus & Church, apparatus.....	370	10.99
Nov.	13.	E. S. Greeley & Co., electrical apparatus.....	371	95.44
Nov.	7.	Electric Construction Co., carbons.....	372	7.00
Nov.	27.	Geo. D. Shepardson, freight and express.....	373	8.00
Nov.	28.	Wm. Marshall, electrical apparatus.....	375	106.00
Nov.	19.	Evans Friction Cone Co., dynamo belts and license.....	376	16.99
Dec.	31.	Mechanic arts, December pay roll.....	409	1,115.00
Dec.	31.	E. B. Johnson, gas, salaries of employes.....	410	27.22
Dec.	31.	Pioneer Fuel Co., Yough, coal.....	424	175.99
Dec.	31.	D. W. Sprague, petty bills.....	427	8.85
Dec.	11.	Fort Wayne Electric Co., electrical apparatus.....	452	622.00
Dec.	22.	W. S. Nott & Co, leather belt, white waste, sheet packing.	453	8.78
Dec.	22.	James W. Queen & Co., apparatus.....	454	20.50
Nov.	9.	Janney, Semple & Co., wire, steel and iron.....	455	54.33
Dec.	29.	Rugg, Fuller & Co., iron pipe and fittings.....	456	7.84
Dec.	29.	W. K. Morrison & Co., miscellaneous hardware.....	457	38.14
Jan.	31.	Mechanic Arts, January pay roll.....	496	1,085.00
Jan.	30.	E. B. Johnson, express and gas.....	497	1.87
Jan.	30.	D. W. Sprague, plumbing labor and material.....	498	11.41
Jan.	1.	James W Day, ice.....	519	5.24
Jan.	28.	J. J. Hawkinson, services surveying.....	539	4.50
Jan.	1.	Joseph Zesbaugh, plaster casts.....	540	50.00
Jan.	1.	Union Iron Works, pulleys for dynamo and 614 lbs. castings	541	62.52
Dec.	31.	W. K. Morrison & Co., miscellaneous hardware.....	543	10.13
Jan.	8.	Western Elec. Instrument Co., two meters.....	544	155.00
Jan.	28.	W. C. Weeks, services as chairman on surveying.....	545	4.00
Jan.	28.	Noah Johnson, draughting map of grounds.....	546	6.00
Jan.	20.	Lyman-Eliel Drug Co., chemical supplies.....	547	4.25
Nov.	3.	N. W. Thompson-Houston Elec. Co., arc dynamo, lamp, etc..	548	580.32
Feb.	29.	Mechanic Arts, February pay roll.....	576	1,085.00
Feb.	29.	E. B. Johnson, gas and petty expenses.....	578	6.49
Feb.	29.	Tribune Job Printing Co., 500 circulars.....	579	5.00
Feb.	29.	Morris & Wilson, stationery.....	589	1.57
Feb.	29.	D. W. Sprague, stamps, postal cards, clock, paper, scales, scales.....	594	5.94
Feb.	27.	W. R. Hoag, electrical supplies, felt, oil and stamps.....	609	13.67
Jan.	27.	Electrical Supply Co., four dynamo brushes.....	610	6.00
Jan.	1.	J. P. Gilmore, lampblack, sulphur, shellac, glue.....	611	5.05
Jan.	29.	Charles A. Schieren & Co., 24.10 belting.....	612	20.23
Feb.	1.	Janney, Semple & Co., bar and rod iron and rivets.....	613	12.17
Jan.	30.	H. L. Day, one tank, labor and boiler plate.....	614	26.97
Feb.	1.	H. A. Hamlin, 71 lbs. brass castings.....	615	15.98
Feb.	20.	Rugg, Fuller & Co., pipe, valves and fittings.....	616	17.78
Feb.	24.	J. H. Gill, four days machine work.....	617	6.09
Feb.	2.	Gillet-Herzog Manufacturing Co., machinery.....	618	22.40
Feb.	25.	Glessner & Washburn, two desks.....	620	42.00
Feb.	6.	The Machinists Supply Co., tools.....	622	9.56
Feb.	27.	The Mpls. Elec. & Const'n Co., one storage battery, 3 cells..	623	8.00
Feb.	26.	W. K. Morrison & Co., miscellaneous hardware.....	624	10.29
Mar.	31.	Mechanic Arts, March pay roll.....	682	1,085.00
Mar.	30.	E. B. Johnson, gas.....	683	1.92
Mar.	17.	Northwestern Fuel Co., coal.....	685	65.79
Mar.	31.	D. W. Sprague, paint, repairs and supplies.....	688	11.85
Mar.	26.	R. B. Lees, carpenter work and materials.....	690	55.85
Mar.	10.	Gillet-Herzog Manufacturing Co., plate, beams, labor.....	732	19.00
Mar.	18.	Northwestern Fuel Co., Connellsville coke.....	733	13.00
Mar.	31.	Janney, Semple & Co., lead, tin, copper, antimony.....	734	30.60
Feb.	1.	Leonard & Ellis, ten gallons cylinder oil.....	735	11.00
Mar.	24.	Bovey-DeLaittre Lumber Co., bill of lumber.....	736	5.24
Mar.	15.	N. W. Thompson-Houston Elec. Co., lamp, special globe....	737	36.00
Mar.	24.	Wm. Marshall, two adjust. and two non-adj. condensers...	738	19.20
Mar.	14.	Bradbury-Stone Stor. Bat. Co, 10 cells 7xglass stor. bat....	739	52.50
Nov.	5.	Naylor Company, iron and galvanized pipe and fittings....	740	9.37
Mar.	3.	Geo. D. Shepardson, freight, express, hardware.....	742	13.94
Dec.	18.	W. K. Morrison & Co., machine bolts.....	743	.16
April	30.	Mechanic Arts, April pay roll.....	769	1,085.06
April	30.	E. B. Johnson, gas and sundry petty expenses.....	771	6.57
Mar.	26.	W. K. Morrison & Co, miscellaneous hardware.....	797	4.65
Mar.	18.	Eastern Electric Light and Storage Battery Co., apparatus for elec. eng. department.....	800	80.00
April	30.	Charles D. P. Gibson, 40 D storage cells in glass jars.....	801	84.38
April	16.	Gillette-Herzog Manufacturing Co., pig iron.....	803	40.10

		No. voucher.	
April 1.	Janney, Semple & Co., copper rods, bartin and slab zinc...	804	\$9.70
Mar. 31.	Edison Light and Power Co., 75 lamps	805	33 00
April 19.	Crane Co., plumbing material for repairs.	806	20.85
April 28.	Geo. D. Shepardson, freight and transportation	807	14.13
Mar. 26.	R. B. Lees, carpenter work and material	849	10.80
May 31.	Mechanic Arts, May pay roll	851	1,085.00
June 1.	E. B. Johnson, gas	852	.80
June 1.	D. W. Sprague, 1½x5 eccen. strap, rubber tube, postage....	854	5.75
April 26.	Northwestern Fuel Co., Yough. coal	861	4.75
May 31.	R. B. Lees, 1 glass 28x32 reset	865	1.60
April 30.	W. K. Morrison & Co., miscellaneous hardware	871	8.72
June 30.	Mechanic Arts, June pay roll.	920	1,085.00
July 1.	D. W. Sprague, stove pipe, hardware, zinc, mould sand....	921	18.82
June 30.	E. B. Johnson, gas....	929	.96
June 30.	Wm. H. Yattaw, repairing doors	931	2.25
June 27.	Tribune Job Printing Co., 1,000 catalogues Col. of Engineer.	938	55.00
Feb. 19.	Fairbanks, Morse & Co., 1 300 lb. counter scale	941	22.75
Total			\$16,286.38

GEOLOGICAL AND NATURAL HISTORY SURVEY.

1892.	CURRENT EXPENSE.		
Aug. 31.	Geological Survey, August pay roll	52	\$300.00
Sept. 30.	Geological Survey, September pay roll	136	400.00
Oct. 1.	R. B. Lees, carpenter work and materials	166	14.00
Oct. 31.	Geological Survey, October pay roll	203	425.00
Oct. 31.	D. W. Sprague, petty bills	211	3.70
Nov. 30.	Geological Survey, November pay roll	302	425.00
Dec. 31.	Geological Survey, December pay roll	409	425.00
Dec. 1.	Eimer & Amend, chemical supplies	413	16.89
Dec. 11.	Baush, Lomb Optical Co., 1 book for library	417	6.50
Jan. 31.	Geological Survey, January pay roll	496	387.50
Feb. 29.	Geological Survey, February pay roll	576	350.00
Mar. 31.	Geological Survey, March pay roll	682	350.00
April 30.	Geological Survey, April pay roll	769	350.00
May 32.	Geological Survey, May pay roll	851	350.00
June 30.	Geological Survey, June pay roll	920	450.00
July 31.	Geological Survey, July pay roll	978	350.00
Total			\$4,571.56

LAW DEPARTMENT.

	CURRENT EXPENSES.		
Aug. 3.	E. B. Johnson, express.. ..	1	\$.85
July 21.	W. S. Nott & Co., 100 feet hose and 1 mystic pipe	5	15.50
July 31.	Wm. H. Yattaw, hauling earth and work on law building..	9	16.11
July 14.	E. L. Ames, kalsomining law building	14	68.00
July 31.	Tribune Job Printing Co., wrappers, registered letters	21	9 50
Sept. 2.	Wm. H. Yattaw, sundry petty expenses.	53	4.00
Sept. 2.	E. B. Johnson, gas	54	.16
Aug. 15.	Wright, Barrett & Stillwell, examination paper	63	14.00
Aug. 4.	C. A. Smith & Co, material for walk to law building	64	45.50
July 1.	N. W. Telephone Exchange Co., telephone service	81	1.50
Aug. 15.	Bradstreet-Thurber Company, 3 dozen special chairs	101	79.50
Aug. 29.	Twin City Sidewalk & Pavement Co., walk, driveway, steps and borders	102	235.18
Sept. 30.	Law Department, September pay roll	136	457.50
Sept. 30.	E. B. Johnson, gas	137	.30
Sept. 30.	Wm. H. Yattaw, grading around law building	138	5.75
Sept. 30.	Tribune Job Printing Co., 300 law course study	146	5.50
Sept. 26.	Cody & Hinline, repairing plumbing	150	7.17
Oct. 31.	Law Department, October pay roll	203	491.00
Oct. 31.	E. B. Johnson, gas and petty expenses	204	9 92
Nov. 1.	Wm. H. Yattaw, labor and petty expense account	205	24.75
Nov. 1.	F. L. Moody, water tax	215	5.00
Oct. 22.	Cody & Hinline, stone pipe	220	3.40
Oct. 21.	Fagan Bros., 1,116 loads of earth hauled to law building....	296	89.28
Nov. 30.	Law Department, November pay roll	302	549.00
Nov. 30.	E. B. Johnson, gas, postage, miscellaneous	304	48.48
Nov. 30.	Wm. H. Yattaw, petty bills ..	306	6.88
Nov. 28.	Cody & Hinline, putting washbowl in cloak room	320	3.75
Dec. 31.	Law Department, December pay roll	409	482.50
Dec. 31.	Wm. H. Yattaw, petty bills ...	418	3.75
Dec. 1.	C. S. Wentworth & Co., repairs for law building	428	8.77
Jan. 31.	Law Department, January pay roll	496	500.00
Jan. 30.	E. B. Johnson, advertising, express, gas	497	22.88
Jan. 15.	The Cody-Hinline Co., plumbing, repairs	505	17.50
Feb. 29.	Law Department, February pay roll	576	607.50
Feb. 29.	E. B. Johnson, gas, express petty bills ..	598	26.64
Feb. 29.	Wm. H. Yattaw, three days cleaning law building..	594	1.25
Feb. 25.	Glessner & Washburn, one window shade	620	.75
Feb. 25.	C. S. Wentworth, radiation in law building, labor	628	16.15
Mar. 13.	Law Department, March pay roll	628	742.50

			No. voucher.	
Mar. 30.	E. B. Johnson, express, gas.....	683	\$25.07	
Mar. 30.	Wm. H. Yattaw, three days cleaning law building.....	698	3.75	
Mar. 28.	The Swinburn Printing Co., 2,000 envelopes.....	714	4.00	
Mar. 1.	Hall, Black & Co., 500 examination papers.....	741	8.00	
April 30.	Law Department, April pay roll.....	769	235.00	
April 30.	E. B. Johnson, gas, express and petty bills.....	771	28.00	
May 1.	Wm. H. Yattaw, one glass 38x40, D. S. reset....	773	2.50	
May 31.	Law Department, May pay roll.....	851	841.50	
June 1.	E. B. Johnson, gas.....	852	22.40	
June 1.	Wm. H. Yattaw, cleaning in law building.....	853	10.62	
June 30.	Law Department, June pay roll.....	920	325.00	
July 1.	D. W. Sprague, 500 questions for review.....	921	3.75	
June 30.	E. B. Johnson, postage, gas, express.....	929	15.20	
June 30.	Wm. H. Yattaw, cleaning in building.....;	931	5.00	
June 11.	The Cody-Hineline Co., gas pipe and fixtures.....	942	9.47	
Total.....			\$6,567.37	

MEDICAL DEPARTMENT.

CURRENT EXPENSE.

Aug. 3.	E. B. Johnson, gas and express.....	1	\$ 5.28
July 31.	D. W. Sprague, petty bills.....	16	1.50
July 31.	Tribune Job Printing Co., letter heads, wrappers, etc.....	2	9.50
July 30.	George H. Hendricks, sundry petty accounts.....	29	80.52
July 1.	Board of Water Commissioners, water permit.....	30	11.00
July 1.	St. Paul Gas Light Co., gas.....	31	18.80
July 31.	P. H. Millard, postage.....	32	18.40
Aug. 8.	Minn. Brush Elec. Co., light and changing switch and socket.....	48	24.12
Aug. 31.	Medical Department, August pay roll.....	52	428.75
Sept. 2.	Wm. H. Yattaw, labor.....	53	1.50
Sept. 2.	E. B. Johnson, gas.....	54	2.72
Aug. 15.	Wright, Barrett & Stillwell, examination paper.....	63	14.00
July 1.	N. W. Telephone Exchange Co., telephone service.....	81	6.30
Aug. 27.	Warner Brothers, paint and oil.....	90	14.44
Sept. 1.	Lintges, Connells & Co., iron rivets and labor on repairs...	103	26.40
Aug. 15.	Minn. Hospital Cottage, rent.....	104	150.00
Aug. 15.	Treasurer Hennepin County, taxes.....	105	11.44
Sept. 30.	Medical Department, September pay roll.....	136	1,238.75
Sept. 30.	E. B. Johnson, petty expenses.....	137	2.56
Oct. 1.	N. W. Telephone Exchange Co., telephone service.....	143	19.00
Sept. 26.	Warner Brothers, miscellaneous hardware.....	160	11.61
Oct. 1.	R. B. Lees, carpenter work and materials.....	166	7.60
July 13.	Mpls. Office & School Furn. Co., 2 tables and apparatus case.....	180	79.00
Oct. 15.	Medical Department, October pay roll.....	203	1,328.75
Oct. 31.	E. B. Johnson, gas.....	204	4.00
Nov. 1.	Wm. H. Yattaw, sundry petty bills.....	205	2.40
Oct. 31.	Tribune Job Printing Co., miscellaneous.....	206	49.50
Oct. 31.	D. W. Sprague, petty bills.....	211	3.60
Oct. 27.	Pioneer Fuel Co., Yough. coal.....	217	73.58
Oct. 21.	Lyman-Eliel Drug Co., chemical supplies.....	218	4.52
Nov. 1.	N. W. Telephone Exchange Co., telephone service.....	224	12.45
Oct. 1.	Pioneer Press Co., advertising proposals for med. col.....	227	9.00
Oct. 25.	Bell Electric Co., Yale locks and keys.....	268	6.25
Oct. 15.	Minneapolis Office and School Furniture Co., 1 oak table, 1 pine bench.....	269	11.50
Oct. 5.	Journal of America Medical Association, advertising.....	270	25.00
Oct. 6.	Northwestern Lancet Co., advertising one year.....	271	60.00
Oct. 31.	Walter S. Pardee, competitive plans for new med. college.....	298	50.00
Oct. 31.	Harry W. Jones, competitive plans for new med. college..	299	50.00
Oct. 31.	G. W. and F. D. Orff, competitive plans for new med. col...	300	50.00
Oct. 31.	L. S. Buffington, competitive plans for new med. college...	301	50.00
Oct. 30.	Medical department, November pay roll.....	302	1,446.67
Nov. 30.	E. B. Johnson, gas petty bills.....	304	10.88
Nov. 25.	R. B. Lees, carpenter work and material.....	305	25.55
Nov. 10.	F. S. Martin, labor and material on heating apparatus....	311	23.59
Nov. 28.	Cody & Hineline, pipe and fittings at Pillsbury hall.....	320	5.23
Nov. 20.	Morris & Wilson, 1 case toilet paper.....	324	8.50
Nov. 30.	D. W. Sprague, sundry petty expenses.....	328	7.55
Nov. 27.	W. W. Sykes & Co., running pipe from main to steam plant.....	347	200.00
Nov. 30.	Minneapolis Fuel Co., 2 loads dry gang.....	349	3.50
Nov. 30.	Noyes Bros. & Cutler, chemical supplies.....	358	6.18
Oct. 29.	Eimer & Amend, chemical supplies.....	382	536.60
Oct. 26.	Bausch & Lomb Optical Co., apparatus.....	383	12.00
Nov. 19.	P. Gleich & Co., labor and material.....	384	12.30
Oct. 26.	Medical college building association, 2 Morrison chairs and Hays boiler.....	385	93.00
Dec. 31.	Medical department, December pay roll.....	409	1,452.37
Dec. 31.	E. B. Johnson, fuel and lights.....	410	22.40
Dec. 28.	Cody & Hineline Co., repairs.....	414	7.60
Dec. 31.	Wm. H. Yattaw, petty bills.....	418	3.50
Dec. 1.	N. W. Telephone Exchange Co., telephone service.....	422	6.15
Dec. 1.	Bell Electric Company, repairs in dental department.....	433	5.50
Dec. 31.	Pioneer Fuel Company, Yough. coal.....	424	66.92
Dec. 31.	D. W. Sprague, petty bills.....	427	5.50
Dec. 31.	Tribune Job Printing Co., note heads, receipts and slips..	429	12.25

		No. voucher.	
Dec.	1.	Noyes Bros. & Cutler, 1 crocker badge roller.....	449 \$4.00
Dec.	29.	W. K. Morrison & Co., miscellaneous hardware.....	457 9.51
Dec.	10.	Minnesota Hospital College, chairs, cabinets and fixtures.....	461 345.00
Nov.	23.	L. B. Wilson, 30 plates in India ink and water colors.....	462 25.00
Nov.	1.	Dr. C. M. Bailey, 1 Stoddard furnace.....	463 16.00
Jan.	1.	Board Water Commissioners, water tax.....	464 11.00
Oct.	23.	Minneapolis Dental Manufacturing Company, 1 lathe.....	465 10.00
Nov.	30.	Prendergast Bros., repairs and labor on furnace.....	466 25.00
Nov.	19.	Henry A. Shufeldt & Co., 1 barrel alcohol.....	493 28.20
Jan.	31.	Medical Department, January pay roll.....	496 1,452.37
Jan.	30.	E. B. Johnson, freight, gas, advertising.....	497 39.68
Jan.	30.	D. W. Sprague, labels.....	498 1.50
Feb.	1.	N. W. Telephone Exchange Company, telephone service...	508 13.20
Jan.	2.	Eimer & Amend, chemical supplies.....	516 55.73
Jan.	28.	Pioneer Fuel Company, Yough. coal.....	524 69.70
Jan.	23.	Minneapolis Fuel Company, coal.....	527 148.25
Jan.	20.	Lyman Eliel Drug Company, borax, crucibles, sulph. acid.....	547 1.80
Feb.	15.	Minnesota Brush Electric Company, light.....	549 9.80
Jan.	15.	C. J. Bell, freight, express and sundries.....	550 35.09
Jan.	27.	S. S. White Dental Mfg. Co., advertising in Dental Cosmos.....	573 100.00
Feb.	29.	Medical Department, February pay roll.....	576 1,436.12
Feb.	29.	E. B. Johnson, gas and miscellaneous expense.....	578 27.04
Mar.	1.	N. W. Telephone Exchange Company, telephone service...	580 6.00
Feb.	24.	Minneapolis Fuel Company, stove coal.....	582 112.50
Feb.	29.	The Cody Hineline Co., putting in washbowl, repairing steam pipe.....	590 7.36
Feb.	29.	D. W. Sprague, labor, gas, jars, 2 lb. oil cloves.....	594 11.30
Feb.	25.	Twin City Calcium Light Company, apparatus and gas....	629 69.85
Feb.	12.	Minn. Hospital College, rent.....	630 300.00
Feb.	17.	Noyes Bros. & Cutler, chemical supplies.....	631 27.05
Mar.	31.	Medical Department, March pay roll.....	682 1,436.12
Mar.	30.	E. B. Johnson, gas, expenses, help.....	683 34.08
Mar.	30.	Wm. H. Yattaw, freight, labor and expenses.....	698 9.09
Feb.	29.	Pioneer Fuel Company, Yough. coal.....	712 49.54
Mar.	31.	N. W. Telephone Exchange Company, telephone service...	713 6.00
Mar.	28.	The Swinburn Printing Company, envelopes.....	714 4.00
April	30.	Medical Department, April pay roll.....	769 1,569.45
April	30.	E. B. Johnson, gas, salaries of employes.....	771 47.36
April	30.	D. W. Sprague, gas, taxes, drugs and circulars ...	772 23.04
May	1.	Wm. H. Yattaw, labor.....	773 2.50
April	30.	Northwestern Fuel Company, Yough. coal.....	777 49.87
May	1.	N. W. Telephone Exchange Company, telephone service...	791 6.50
April	30.	P. H. Millard, postage and telegraphing.....	809 10.50
Feb.	15.	Eimer & Amend, supplies and apparatus.....	810 86.55
May	2.	Noyes Bros. & Cutler, chemical supplies.....	811 41.65
April	4.	W. K. Mulliken, engraving.....	812 10.00
April	1.	Minnesota Brush Electric Company, lights.....	813 4.50
Feb.	6.	McDonald Bros., 4 dozen ½ gallon Mason jars.....	814 5.60
Nov.	15.	R. O. Beard, supplies.....	815 7.71
April	30.	W. K. Sudduth, postage.....	816 5.00
April	30.	Alexander J. Stone, M. D., expenses connected with lecture.....	817 50.00
April	30.	Chas. A. Wheaton, M. D., expenses connected with lecture.....	818 50.00
April	30.	John F. Fulton, M. D., expenses connected with lecture....	819 50.00
April	30.	Robt. A. Wheaton, M. D., expenses connected with lecture.....	820 50.00
April	30.	Chas. L. Green, M. D., trav. exp. in connec. with lectures.....	821 50.00
April	30.	C. E. Riggs, M. D., trav. exp. in connection with lectures.....	822 50.00
April	30.	B. Henry Ogden, M. D., trav. exp. in connec. with lectures.....	823 50.00
April	30.	E. L. Mann, M. D., trav. exp. in connection with lectures.....	824 50.00
April	30.	Warren S. Briggs, M. D., trav. exp. in connec. with lectures.....	825 50.00
April	30.	D. A. Strickler, M. D., trav. exp. in connec. with lectures.....	826 50.00
April	30.	A. P. Williamson, M. D., trav. exp. in connec. with lectures.....	827 50.00
May	31.	Medical Department, May pay roll.....	851 1,569.45
June	1.	E. B. Johnson, gas, salaries of employes.....	852 36.80
June	1.	Wm. H. Yattaw, labor in and about medical college.....	853 9.00
June	1.	D. W. Sprague, office supplies, telephone service, light...	854 4.70
April	26.	Northwestern Fuel Co., Yough coal.....	861 17.00
June	1.	N. W. Tel. Exch. Co., telephone service.....	873 7.55
May	29.	Dr. C. M. Bailey, lectures delivered.....	882 50.00
May	29.	Dr. L. E. Weeks, lectures delivered.....	883 50.00
Jan.	20.	T. S. Metcalf, 100 copies of address.....	884 5.00
June	30.	Medical Department, June pay roll.....	920 1,529.45
June	8.	Harry W. Jones, professional services in chemical lab'ty..	924 150.00
June	30.	E. B. Johnson, advertising, sub. to "Bulletin".....	929 122.14
June	30.	Wm. H. Yattaw, cleaning in and about medical college....	931 14.87
June	30.	Tribune Job Printing Co., 8,500 wrappers.....	934 8.50
June	27.	Trib. Job Print. Co., 9,000 catalogues, col. dent. hom. & med.....	938 303.00
June	11.	The Cody Hineline Co., taking down pipe-fittings.....	942 3.87
June	1.	Globe Publishing Co., advertising cards.....	944 6.00
June	15.	Minn. Hospital College, rent.....	945 200.00
June	29.	Chas. Bailey, D. M. D., crating chairs, freight and trucking.....	946 27.66
July	31.	Medical Department, July pay roll.....	978 435.42

Total.....

\$20,854.70

EXPERIMENT STATION.

1892.	GENERAL STATION.—CURRENT EXPENSE.	No. voucher.	
July 18.	E. H. S. Dart, expenses of Owatonna Experiment Station..	20	\$199.97
July 27.	Clinton D. Smith, miscellaneous.....	33	29.97
June 27.	Tribune Job Printing Co., letter heads and memorandums..	34	8.25
May 14.	H. Kelley & Co., plumbing work and material.....	38	8.95
July 16.	Miss E. C. Smith, six and one half days typewriting.....	39	13.00
July 8.	Jno. A. Schlener & Co., journals and ledgers.....	42	9.80
Aug. 31.	Experiment Station Gen., August pay roll.....	52	175.00
July 1.	N. W. Telephone Exch. Co., telephone service.....	81	7.00
Aug. 31.	Clinton D. Smith, freight, postage and express.....	106	32.98
Aug. 27.	R. L. Polk & Co., books for library.....	107	5.00
Aug. 12.	Jas. H. Bishop & Co., 15,000 envelopes.....	120	48.75
July 3.	E. F. Baiten, salaries of employes.....	121	17.40
July 30.	Harrison & Smith, letter heads and envelopes.....	122	44.75
Aug. 31.	Clinton D. Smith, freight and transportation.....	126	72.81
Aug. 29.	I. Gutzwiller Jr., 15,000 bulletins each No 17 and 18.....	128	225.00
Sept. 30.	General Station Exp., September pay roll.....	136	174.99
Sept. 30.	E. B. Johnson, postage and express.....	137	75.00
Oct. 1.	N. W. Telephone Exch. Co., telephone service.....	143	19.00
Sept. 30.	Clinton D. Smith, freight and express.....	183	18.72
Oct. 15.	D. W. Sprague, petty bills.....	202	4.00
Oct. 31.	General Station, October pay roll.....	203	174.99
Nov. 1.	N. W. Telephone Exch. Co., telephone service.....	224	14.00
Oct. 29.	Clinton D. Smith, postage, office work and supplies.....	272	13.30
Oct. 29.	Clinton D. Smith, freight and express.....	273	4.30
Oct. 9.	Mrs. Viola Roberts, labor.....	288	6.06
Nov. 30.	General Station, November pay roll.....	302	190.05
Nov. 30.	Clinton D. Smith, stamps, oil and matches.....	386	15.80
Nov. 30.	Clinton D. Smith, house cleaning, petty supplies.....	387	25.04
Nov. 21.	E. H. S. Dart, carpenter work, plow, express.....	390	42.54
Nov. 11.	Hedderly & McCracken, one pair shafts.....	392	5.00
Dec. 31.	General station, December pay roll.....	409	191.50
Dec. 1.	N. W. Telephone Exchange Co., telephone service.....	422	7.00
Dec. 31.	D. W. Sprague, petty bills.....	427	6.75
Dec. 14.	New England Furniture Co., one cherry desk.....	473	16.00
Nov. 1.	Held & Gruenhagen, miscellaneous hardware.....	478	6.14
Dec. 2.	James Congdon, mason work and material.....	480	8.25
Dec. 16.	Clinton D. Smith, housecleaning, oil, paper, pencils.....	492	15.86
Dec. 7.	Fairbanks, Morse & Co., pulleys, leather belt, iron collars.....	494	35.94
Jan. 31.	General station expenses, January pay roll.....	496	186.61
Jan. 30.	D. W. Sprague, filter paper, flasks.....	498	7.50
Feb. 1.	N. W. Telephone Exchange Co., telephone service.....	508	14.00
Jan. 25.	S. M. Emery, expenses of board meeting.....	522	3.46
Jan. 28.	Clinton D. Smith, journal, postage and supplies.....	553	24.88
Jan. 28.	Clinton D. Smith, miscellaneous bills.....	555	41.16
Dec. 31.	W. K. Morrison & Co., miscellaneous hardware.....	557	16.62
Dec. 31.	Harrison & Smith, 5,000 envelopes.....	559	11.25
Nov. 18.	Pioneer Fuel Co., Hocking coal.....	569	64.63
Nov. 1.	Held & Gruenhagen, miscellaneous hardware.....	563	23.17
Jan. 12.	Pioneer Fuel Co., pine slabs and stove coal.....	564	34.40
Dec. 29.	Rugg, Fuller & Co., pipe, fittings and gate valves.....	560	24.72
Feb. 29.	General station expense, February pay roll.....	576	189.75
March 1.	N. W. Telephone Exchange Co., telephone service.....	580	7.00
Feb. 29.	D. W. Sprague, flower pots, plants, seeds, labor, book sup'ts	594	20.48
Feb. 27.	Clinton D. Smith, freight, express, petty bills.....	633	10.71
Feb. 27.	Clinton D. Smith, membership association, pipe, pumping.....	636	42.75
Jan. 30.	Harrison & Smith, 300 D. S. cheese work, 500 work reports.....	639	3.50
Jan. 6.	Held & Gruenhagen, shelf brackets, repairs waste pipe....	644	2.00
Nov. 24.	Fairbanks, Morse & Co., water tower as per contract.....	648	2,000.00
Feb. 5.	E. G. Wallof, machine work.....	650	12.70
Mar. 31.	General station, March pay roll.....	682	1,777.71
Mar. 31.	D. W. Sprague, hardware, drugs, blacksmithing.....	688	21.93
Mar. 31.	N. W. Telephone Exchange Co., telephone service.....	713	7.00
Dec. 18.	W. K. Morrison & Co., hardware.....	743	4.69
Mar. 29.	Clinton D. Smith, RR. fare, office work and telegram.....	746	2.13
Mar. 29.	Clinton D. Smith, stamps, expense, petty expenses.....	747	18.92
Mar. 29.	Clinton D. Smith, stamps.....	748	10.00
Feb. 25.	Minneapolis Fuel Co., coal.....	751	312.37
Mar. 26.	I. Gutzwiller, Jr., 15,000 copies of Bulletins No. 19 and extr	752	179.10
Feb. 26.	C. A. Smith & Co., bill of lumber.....	760	17.92
April 30.	General station, April pay roll.....	769	213.52
May 1.	N. W. Telephone Exchange Co., telephone service.....	791	6.50
April 4.	E. H. S. Dart, miscellaneous supplies.....	828	56.88
April 26.	Clinton D. Smith, express, drugs, oil, labor.....	830	8.62
April 2.	R. R. Howell & Co., galvanized pipe and fittings.....	843	11.30
April 7.	Thos. K. Gray, oils, brushes, varnish, dressing.....	844	4.18
May 31.	General station, May pay roll.....	851	216.00
June 1.	D. W. Sprague, 100 No. 1 red pipe trees.....	854	4.00
June 1.	N. W. Telephone Exchange Co., telephone service.....	873	7.50
May 28.	Clinton D. Smith, stamps, express, boarding girls.....	885	20.45
May 12.	Marion Hays, drawing and engraving calf.....	888	15.50
April 30.	F. A. Fletcher & Co., straps and repairing harness.....	889	8.60
May 2.	Jas. H. Bishop & Co., 19,500 manilla envelopes.....	891	2.40
May 12.	J. H. Harper, photo engraving.....	896	21.00

			No. voucher.	
Oct.	21.	H. Kelly & Co., plumbing repairs.....	900	\$19.35
April	21.	M. A. Scovell, membership fee.....	904	10.00
June	30.	General station, June pay roll.....	929	216.00
July	1.	D. W. Sprague, plumbing goods, lumber.....	921	9.09
May	31.	Harrison & Smith, tags and distribution of acct. books.....	948	12.75
Oct.	8.	R. G. Clark, inspecting boiler.....	955	5.00
Feb.	19.	Held & Gruenhagen, hardware.....	966	4.63
June	20.	I. Gutzwiller, Jr., printing Bulletins.....	967	478.80
July	1.	N. W. Telephone Exchange Co., telephone service.....	972	7.00
July	31.	General station, July pay roll.....	978	216.00
Total.....				\$7,094.99

EXPERIMENT STATION.

DIVISION OF AGRICULTURE—CURRENT EXPENSE.

July	27.	Clinton D. Smith, freight and express.....	33	\$21.06
April	30.	Northrup, Braslan & Goodwin, seeds.....	35	12.65
July	15.	T. A. Hoverstad, nine days surveying.....	18	36.00
July	25.	Pioneer Fuel Co., coal.....	40	7.43
July	18.	City Elevator Co., shelled corn and sacks.....	41	23.22
June	18.	Held & Gruenhagen, bill of hardware.....	42	2.75
July	14.	Woodburn Farm Fence Co., 42 rods farm fence.....	44	21.00
July	17.	Stamwitz & Shober, 2,080 pounds feed.....	46	17.68
Aug.	31.	Division of Agriculture, August pay roll.....	52	414.19
Sept.	1.	D. W. Sprague, petty bills.....	73	3.25
Aug.	31.	Clinton D. Smith, miscellaneous expenses.....	106	23.80
Aug.	26.	Pillsbury & Washburn Co., feed.....	108	73.35
Aug.	4.	Northwestern Fuel Co., charcoal, etc.....	110	88.98
Aug.	4.	Northrup, Braslan, Goodwin Co., seeds and plants.....	111	16.44
July	27.	Adam Lindig, oats.....	115	50.88
Aug.	20.	City Elevator Co., shelled corn.....	116	42.68
Aug.	26.	J. A. Vye, barley.....	118	29.63
Aug.	4.	Pioneer Fuel Co., fuel.....	119	6.75
Aug.	8.	Moline, Milburn, Stoddard Co., binding twine.....	123	14.63
Aug.	29.	W. M. Hayes, salaries of employes and freight.....	124	24.25
Aug.	5.	Alf. Scott, one span mares.....	125	477.12
Sept.	30.	Division of Agriculture, September pay roll.....	136	442.17
Sept.	30.	Clinton D. Smith, miscellaneous.....	183	27.58
Sept.	21.	City Elevator Co., shelled corn.....	184	22.85
Aug.	28.	C. L. Moffatt, blacksmithing.....	188	22.00
Sept.	21.	Minnesota Linseed Oil Works, 500 pounds oil meal.....	190	5.75
Sept.	29.	W. M. Hays, freight, stamps and passenger fare.....	191	20.90
Sept.	1.	Farm, Stock and Home, advertising.....	192	6.60
Sept.	11.	Pillsbury-Washburn Co., 2,000 pounds shorts.....	195	16.00
Sept.	2.	James Powers, oats and wheat.....	196	37.84
Sept.	5.	N. Forest, salaries of employes.....	198	5.25
Oct.	31.	Division of Agriculture, October pay roll.....	203	544.00
Oct.	31.	D. W. Sprague, petty bills.....	211	2.50
Oct.	29.	Clinton D. Smith, pasteboard boxes and labor on farm.....	272	22.54
Oct.	29.	Clinton D. Smith, freight and express.....	273	28.98
Oct.	29.	City Elevator Co., 490 lbs. barley.....	274	15.02
Oct.	14.	Phelps, Well and Wind Mill Co., labor and material for repairs.....	276	7.60
Oct.	7.	Nelson, Tenney & Co., bill of lumber.....	280	5.81
Oct.	12.	N. W. Fuel Co., charcoal.....	283	5.00
Oct.	31.	De Cou & Co., wire netting.....	284	17.86
Oct.	16.	Minneapolis Grain and Feed Co., barley.....	285	23.33
Oct.	22.	Pillsbury-Washburn Co., bran and screenings.....	286	180.10
Oct.	30.	Wm. M. Liggett, 1 Poland China sow.....	287	20.00
Sept.	28.	Lindsay Bros., 1 plow.....	289	16.00
Aug.	31.	W. H. Konantz & Co., 1 set heavy harness and pads.....	290	46.30
Oct.	12.	Minn. Linseed Oil Works, oil meal.....	291	11.00
Oct.	28.	J. I. Case Implement Co., 1 scraper.....	294	6.00
Nov.	30.	Division of Agriculture, November pay roll.....	302	414.41
Nov.	30.	D. W. Sprague, petty bills.....	328	3.13
Nov.	23.	Twin City Packing Co., sheep.....	374	44.10
Nov.	30.	Clinton D. Smith, salaries of employes, telegrams, supplies.....	386	49.44
Nov.	30.	Clinton D. Smith, 598 bu. barley, freight, etc.....	387	277.53
Nov.	1.	George Harding, stock.....	389	225.00
Nov.	11.	S. B. Loye & Sons, blankets, snaps and cockeyes.....	393	6.30
Nov.	6.	Pioneer Fuel Co., coal.....	394	9.00
Nov.	10.	Pillsbury-Washburn Co., 3,000 lbs. shorts.....	395	21.00
Nov.	13.	Northwestern Fuel Co., coal.....	396	9.20
Nov.	2.	C. L. Moffatt, blacksmithing.....	397	32.00
Oct.	19.	Minneapolis Grain and Feed Co., corn and barley.....	410	52.51
Oct.	28.	R. S. Houston, stock.....	407	225.00
Dec.	21.	Division agriculture, December pay roll.....	409	374.82
Dec.	19.	Minneapolis Grain and Feed Co., corn and screenings.....	469	67.69
Dec.	31.	Minn. Linseed Oil Works, screenings, 2 tons.....	486	16.00
Dec.	21.	Louis Duensing, screenings and sacks.....	488	5.36
Dec.	26.	City Elevator Company, screenings and cockle.....	490	45.69
Dec.	28.	W. M. Hays, freight, express and postage.....	491	11.90
Dec.	16.	Clinton D. Smith, salaries of employes, washing, etc.....	492	23.01
Jan.	31.	Division of agriculture, January pay roll.....	496	452.51

			No. voucher.	
Oct.	21.	Minneapolis Brewing Co., 1,000 lbs. barley	552	\$13.55
Jan.	28.	Clinton D. Smith, hardware, R. R. fare, freight.....	553	4 66
Feb.	29.	Division of agriculture, February pay roll	576	368.68
Feb.	27.	Clinton D. Smith, sundry petty expenses	633	6.02
Feb.	1.	Midway supply Co., hauling coal	634	14.63
Feb.	18.	Pioneer Fuel Co., hock coal.....	635	60.53
Feb.	27.	Clinton D. Smith, Peter Paulson, labor.....	636	2.77
Sept.	28.	Pillsbury-Washburn Co., 3,000 lbs. shorts.....	640	24.00
Feb.	10.	Northwestern Fuel Co., coal.....	641	29.63
Feb.	18.	A. R. Miller & Sons, 2 kegs nails.....	645	5.40
Jan.	20.	W. K. Morrison & Co., tools.....	647	9.75
Feb.	20.	Fred Lucksinger, stock.....	658	20.00
Feb.	12.	W. F. Porter & Co., fittings.....	659	1.83
Mar.	31.	Division of agriculture, March pay roll.....	682	282.32
Mar.	29.	Clinton D. Smith, labor, freight and one meal.....	746	13.30
Mar.	29.	Clinton D. Smith, express and freight.....	747	14.57
Feb.	25.	C. H. Searle, stock	761	40.00
Mar.	10.	W. S. Cole & Son, stock.....	762	25.00
April	30.	Division of agriculture, April pay roll.....	769	284.35
Apr.	26.	Clinton D. Smith, express, labor and sundry petty expen's	830	28.72
Apr.	18.	A. V. Cleland, expert grain cleaner, 18 sieves.....	832	29.00
Mar.	31.	Moline, Millburn, Stoddard Co., 1 steel harrow.....	834	12.00
Apr.	21.	E. W. Henderickson, 35 bushels barley.....	836	17.50
Mar.	31.	C. L. Moffatt, repairs, horse shoes and setting same.....	838	18 65
Apr.	6.	L. E. Mahan, stock.....	839	30.00
Apr.	14.	Minneapolis Grain and Feed Co., corn.....	842	21.43
Sept.	24.	Northrup, Braslan, Goodwin Co., seeds and plants.....	847	24.98
May	31.	Division of Agriculture, May pay roll.....	851	385.32
May	28.	Clinton D. Smith, corn, freight and drugs.....	885	2.60
May	6.	Crane Co., gate valves, fittings and gauge glasses.....	897	5.32
May	23.	Northrup, Braslan, Goodwin, seeds.....	901	8.35
June	30.	Division of Agriculture, June pay roll	920	309.79
July	1.	D. W. Sprague, lumber.....	921	2.08
May	28.	Northrup, Braslan, Goodwin Co., seeds.....	949	4.32
June	3.	Twin City Packing Co., 2,000 pounds fertilizer.....	651	12.00
June	1.	Pillsbury-Washburn Co., 3,000 pounds shorts.....	953	16.50
Oct.	8.	R. G. Clark, inspecting boiler.....	955	3.00
June	28.	C. L. Moffatt, blacksmithing.....	958	11.00
June	6.	Warder, Bushnell & Glessner, repairs for machinery.....	959	9.27
June	15.	Brooks Bros., bill of lumber.....	961	11.24
July	31.	Division of Agriculture, July pay roll.....	978	301.71
Total				\$7,800.07

EXPERIMENT STATION.

1892.

DIVISION OF CHEMESTRY.—CURRENT EXPENSE.

July	27.	Clinton D. Smith, postage, sundry expenses	33	\$10.05
June	27.	Tribune Job Printing Co., 1,000 postal cards, printed.....	34	11.50
June	24.	W. K. Morrison & Co., hardware.....	37	2.40
June	11.	D. N. Harper, freight and express.	43	27.70
Aug.	31.	Division of Chemistry, August pay roll.....	52	123.33
Aug.	31.	Clinton D. Smith, miscellaneous expenses	106	17.30
May	20.	Northwestern Envelope Co., 1,000 envelopes	112	10.50
July	30.	Henry Troemer, chemical apparatus	114	25.93
July	30.	Harrison & Smith, tags, envelopes, letter circulars.....	122	8.50
Sept.	30.	Division of Chemistry, September pay roll	136	123.33
Sept.	30.	Clinton D. Smith, freight, express and expense of 2 trips..	183	67.52
Mar.	2.	August Rolker & Sons, seeds and plants.....	189	77.29
Aug.	28.	C. L. Moffatt, repairs for steam pump.....	188	.75
Sept.	29.	W. M. Hayes, express.	191	2.22
July	14.	Geo. L. Squier Mfg. Co., 1 No. 2 Pioneer mill, hand power...	197	28.00
Sept.	21.	Standard Oil Co., oil.....	199	45.89
Oct.	31.	Division Chemistry, October pay roll.....	203	123.33
Oct.	30.	John A Schlener & Co., stationery	207	4.00
Oct.	31.	D. W. Sprague, petty bills	211	7.17
Oct.	31.	W. K. Morrison & Co., poultry netting, staples and lub. oil.	252	1.05
Oct.	29.	Clinton D. Smith, freight and express.....	272	18.94
Oct.	29.	Clinton D. Smith, freight and express.....	273	16.45
July	31.	Henry Troemner, 1 No. 4 balance	278	40.75
Oct.	7.	Jessie B. Milliman, type-writing	292	8.55
July	23.	Noyes Bros. & Cutler, bottles	293	8.76
Nov.	30.	Division of Chemistry, November pay roll	302	135.07
Nov.	30.	Clinton D. Smith, transportation, postage and express.....	386	17.52
Nov.	30.	Clinton D. Smith, freight and transportation.....	387	14.60
Oct.	27.	Thos. K. Gray, 3 gross bottles.....	403	10.50
Oct.	31.	Harrison & Smith, circulars, envelopes, tags	404	24.25
July	2.	Eimer & Amend, chemical supplies.....	405	472.73
Oct.	28.	Eimer & Amend, chemical supplies.....	408	16.82
Dec.	31.	Division of Chemistry, December pay roll	409	260.17
Dec.	31.	D. W. Sprague, petty bills	427	4.85
Dec.	14.	D. N. Harper, freight and transportation.....	468	53.33
Oct.	29.	Cooley & Vater, patent pulleys.....	481	7.68
Nov.	23.	Noyes Bros. & Cutler, chemical supplies.....	483	23.96
Dec.	3.	Thomas K. Gray, 2 gro. bottles and corks	484	7.32
Dec.	16.	Clinton Smith, express, drayage and freight	492	25.65

			No. voucher.	
Dec.	14.	D. N. Harper, freight, transportation and express	495	\$51.85
Jan.	31.	Division Chemistry, January pay roll	496	135.25
Jan.	28.	Clinton D. Smith, freight on beets and corn	553	1.40
Jan.	28.	Clinton D. Smith, express and freight	555	.82
Feb.	29.	Division of Chemistry, February pay roll	576	131.33
Feb.	27.	Clinton D. Smith, freight, express, petty expense	633	8.80
Feb.	27.	Clinton D. Smith, freight	636	.25
Jan.	28.	C. L. Moffatt, blacksmithing and repairs	638	47.70
Oct.	30.	Kelso Farm, wheat	646	70.50
Mar.	31.	Division of Chemistry, March pay roll	682	136.65
Mar.	29.	Clinton D. Smith, freight	746	1.12
Mar.	29.	Clinton D. Smith, freight	747	.50
Nov.	20.	Mrs. Ella J. Henderson, wheat and sacks	749	25.50
Feb.	25.	Minneapolis Fuel Co., coal	751	226.89
Oct.	30.	James Holes, wheat, 25 bu. and sacks	756	22.90
April	30.	Division of Chemistry, April pay roll	669	129.33
April	26.	Clinton D. Smith, labor	830	.50
May	31.	Division Chemistry, May pay roll	851	145.00
May	28.	Clinton D. Smith, express, freight	885	2.06
April	30.	Harrison & Smith, reports, chem. lab.	893	6.00
May	5.	Lyman, Eliel Drug Co., chemical supplies	894	10.65
June	30.	Division of Chemistry, June pay roll	920	145.00
Mar.	23.	Standard Oil Co., 5 barrels gasoline	947	25.63
Oct.	8.	R. G. Clark, inspecting boiler	955	3.00
June	15.	Brooks Bros., screen doors	961	3.60
July	31.	Division of Chemistry, July pay roll	978	136.54
Total				\$3,354.43

1892

DIVISION OF ENTOMOLOGY—CURRENT EXPENSE.

June	24	W. K. Morrison & Co, hardware	37	\$ 3.42
June	18	Held & Gruenhagen, hardware	42	2.75
Aug.	31	Division Entomology, August pay roll	52	128.33
Sept.	1	D. W. Sprague, petty bills	73	4.50
Sept.	1	Otto Lugger, postage, freight and express	127	15.25
Sept.	30	Division Entomology, September pay roll	136	128.33
Oct.	31	Division Entomology, October pay roll	203	93.76
Oct.	29	Clinton D. Smith, book	272	1.32
Oct.	25	Dr. Otto Lugger, heating stove, books, paper	279	22.90
Nov.	30	Division Entomology, November pay roll	302	91.65
Nov.	24	Otto Lugger, freight, express and postage	391	11.85
Oct.	31	Harrison & Smith, paper ruled for labels	404	2.00
April	18	Nixon Nozzle Machine Co., apparatus	406	44.00
Dec.	31	Division Entomology, December pay roll	409	89.70
Dec.	19	Husby & Skauge, 5 breeding cases	475	55.00
Jan.	31	Division Entomology, January pay roll	496	97.81
Feb.	29	Division Entomology, February pay roll	576	93.38
Feb.	22	H. N. Patterson, labels and check lists	657	5.80
Mar.	31	Division Entomology, March pay roll	682	98.93
Mar.	25	Otto Lugger, express, postage, lumber and paint	750	16.39
April	30	Division Entomology, April pay roll	769	108.33
April	26	Clinton D. Smith, botanical books, express	880	14.65
April	15	James M. Thorburn, seeds of grasses and fodder	835	18.00
May	31	Division Entomology, May pay roll	851	108.33
May	28	Clinton D. Smith, freight	885	.95
June	30	Division Entomology, June pay roll	920	128.33
July	1	D. W. Sprague, 5 lbs. London purple	921	.75
July	31	Division of Entomology, July pay roll	978	121.79
Total				\$1,508.20

DIVISION OF HORTICULTURE—CURRENT EXPENSE.

July	27.	Clinton D. Smith, express and paper	33	\$ 4.65
June	18.	Held & Gruenhagen, hardware	42	3.80
Nov.	15.	Northwestern Fuel Co., stove coal	47	100.46
Aug.	31.	Division Horticulture, August pay roll	52	158.09
Sept.	1.	D. W. Sprague, petty bills	73	4.57
Aug.	31.	Clinton D. Smith, miscellaneous expenses	106	22.60
Apr.	16.	Pike Co. Nurseries, seeds and plants	109	20.40
Aug.	14.	Samuel B. Green, freight and express	113	10.82
Sept.	30.	Division Horticulture, September pay roll	136	227.92
Sept.	14.	Lyman-Eliel Drug Co., two gross bottles and corks	189	7.40
Sept.	1.	F. A. Fletcher & Co., breast collar and traces	193	6.50
Sept.	30.	Clinton D. Smith, express	183	.65
Oct.	31.	Division Horticulture, October pay roll	203	215.33
Oct.	31.	D. W. Sprague, petty bills	211	9.78
Oct.	29.	Clinton D. Smith, freight, postage and express	272	19.70
Oct.	1.	F. G. Gould, 75 carnations	277	6.00
Oct.	26.	Phil Strubler, fruit plants	281	5.00
Nov.	30.	Division Horticulture, November pay roll	302	173.72
Nov.	30.	Clinton D. Smith, salaries of employes and express	386	11.98
Apr.	30.	Iowa Agr'l College, apple, cherry and plum trees	400	20.50
Dec.	31.	Division of Horticulture, December pay roll	409	143.87
Dec.	31.	D. W. Sprague, petty bills	427	4.50
Dec.	28.	Franklin Academy Nursery, seeds	474	11.25

		No. voucher.	
Dec. 28.	Iowa Agricultural College, plants and shrubs.....	489	10.80
Jan. 31.	Division of Horticulture, January pay roll.....	496	147.03
Jan. 28.	Clinton D. Smith, express, oil, etc.....	553	4.00
Dec. 31.	W. K. Morrison & Co., hardware, locks, knobs, butts ..	557	4.70
Dec. 18.	Pike County Nurseries, 100 Japan pear stocks, 1 yr.....	561	6.50
May 1.	C. G. Patten, plum and pear roots.....	562	14.25
Nov. 1.	Held & Gruenhagen, glass, white lead and oil.....	563	5.05
Nov. 23.	James Keenholts, work on green house.....	566	5.00
Feb. 29.	Division of Horticulture, February pay roll.....	576	149.28
Feb. 27.	Clinton D. Smith, sundry petty expenses.....	633	15.18
Feb. 8.	Minneapolis Elect. and Const. Co., eight gravity batteries and office wire.....	637	6.62
Jan. 20.	W. K. Morrison & Co, saw, Grant pruner, shoe knives.....	647	1.80
April 9.	A. H. Grilsa, raspberry vines.....	655	5.00
Feb. 12.	W. F. Porter & Co, one cylinder for pump.....	659	4.00
Mar. 31.	Division of Horticulture, March pay roll.....	682	150.06
Mar. 29.	Clinton D. Smith, drugs, express, freight, stamps.....	747	22.01
Mar. 23.	F. S. Hubbard Co., fruit vines.....	754	5.31
Mar. 14.	T. V. Munson, fruit vines	757	11.70
April 30.	Division of Horticulture, April pay roll.....	769	218.14
Mar. 26.	W. K. Morrison & Co, Hardware.....	797	3.17
April 26.	Division of Horticulture, express, postage, strawberry plants	830	26.92
April 25.	R. P. Spear & Co., 34 apple trees.....	831	6.80
April 23.	Bemis Bros. Bag Co., 104 yards, 45-inch 8-ounce burlap.....	837	7.28
April 15.	H. J. Ludlow, six plum trees.....	840	6.00
April 11.	Goodyear rubber Co. 55 feet hose.....	841	9.90
Sept. 24.	Northrup, Braslan, Goodwin Co., seeds.....	847	.31
May 31.	Division of Horticulture, May pay roll.....	851	237.60
May 28.	Clinton D. Smith, stamps, express and freight.....	885	19.26
April 28.	Experiment Farm, 500 Riga pines	886	6.00
April 12.	Jas. M. Thorburn, seeds, peas and corn.....	887	5.10
April 25.	Stark Bros., plum trees.....	892	7.36
April 30.	Harrison & Smith, reports and blanks.....	893	8.50
April 28.	Elwanger & Barry, plants.....	895	23.35
April 25.	Thomas Meehan & Sons, seeds	899	9.00
April 5.	J. T. Lovett, berry plants.....	902	21.25
May 19.	Coe & Converse, plants and trees.....	903	7.00
June 30.	Division of Horticulture, June pay roll.....	920	218.74
July 1.	D. W. Sprague, 500 strawberry plants.....	921	2.50
June 20.	Chas. Hawkinson, elm and crab trees.....	950	6.00
June 14.	C. G. Patten, plants.....	952	32.64
June 20.	C. S. Harrison, trees.....	954	17.75
May 23.	M. A. Thayer, plants	956	9.95
June 28.	C. L. Moffatt, blacksmithing.....	958	.50
May 14.	S. Trogner, one each of 30 varieties of potatoes.....	960	5.00
May 31.	Iowa Agricultural College, apricots, plum, cherry and ap- ple trees.....	963	32.65
April 25.	M. Crawford, plants.....	965	8.65
Feb. 19.	Held & Gruenhagen, hardware.....	966	3.58
July 31.	Division of Horticulture, July pay roll.....	878	263.00
Total			\$2,981.27

SPECIAL APPROPRIATIONS.

FOR LIBRARY.

For the fiscal year ending July 31, 1892..... \$5,000.00

DISBURSEMENTS.		No. voucher.	
August.	McMillan & Co., books.....	61	\$39.32
"	Theode & Co., books.....	72	44.30
"	Gustav E. Stechert, books.....	74	131.98
"	Chas. D. Whitall & Co., books.....	77	37.50
"	Gustav E. Stechert, books.....	82	10.92
"	Mrs. Chas. Le Vesconte, books.....	84	10.00
"	Gustav E. Stechert, books.....	89	38.99
"	B. Westman, books.....	93	10.09
"	Estes & Lauriat, books.....	97	25.00
Sept.	Gustav E. Stechert, books.....	144	70.01
"	Houghton, Mifflin & Co., books.....	148	25.00
October.	Chas. D. Raymer, books.....	213	7.05
"	Gustav E. Stechert, books.....	230	142.61
Nov.	T. C. McClure, books.....	312	16.00
"	Gustav E. Stechert, books.....	330	189.78
"	Chas. D. Whitall, books.....	331	18.10
"	Library Bureau, books.....	339	5.00
"	D. D. Miller & Co., books.....	342	68.65
Dec.	W. H. Moore, magazines and papers.....	432	443.75
"	Gustav E. Stechert, books.....	433	28.81
"	Gustav E. Stechert, books.....	437	54.90
"	Gustav E. Stechert, books.....	438	115.69
"	Little, Brown & Co., books.....	460	53.02
"	A. B. Seymour, books.....	485	7.22
January	W. H. Moore, magazines and papers.....	501	10.10
"	Gustav E. Stechert, books.....	506	147.07
January	Houghton, Mifflin & Co., books.....	512	25.00
"	A. S. Clark, books.....	517	91.00
"	Chas. D. Whitall & Co., books.....	523	6.10
"	The Century Dictionary Co., 1 vol. Cen. Dic.....	529	10.00
"	Chas. D. Whitall & Co., books.....	542	28.60
"	G. Sidney Smith, books.....	574	24.50
Feb.	Wm. P. Letchworth, books.....	581	10.00
"	Wm. H. Moore, magazines and papers.....	591	7.75
"	American Book Company, books.....	599	5.94
"	W. J. Beal, books.....	600	22.44
"	American Devon Cattle Club, books.....	603	10.00
"	American Institute Electrical Engineers, books.....	619	27.25
"	Gustav E. Stechert, books.....	621	28.43
"	Hall, Black & Co., books.....	627	8.25
"	West Publishing Co., books.....	660	655.00
March	Chas. D. Whitall & Co., books.....	695	74.91
"	Chas. D. Whitall & Co., books.....	697	19.76
"	Harrison & Smith, books.....	700	151.95
"	DeLaw & Co., books.....	704	22.42
August	Harrison & Smith, binding books.....	76	112.00
Nov.	Harrison & Smith, binding books.....	307	88.00
"	Harrison & Smith, binding books.....	308	39.35
"	Harrison & Smith, binding books.....	431	60.85
April 16.	Gustav E. Stechert, books.....	774	141.09
Mar. 23.	Chas. D. Whitall & Co., books.....	782	26.57
April 18.	American Society of Civil Engineers, books.....	799	87.75
May 30.	H. P. Judson, books, charts.....	906	200.73
May 12.	Ginn & Company, books.....	907	21.17
May 25.	Morris & Wilson, books.....	908	2.40
May 24.	Chas. D. Whitall & Co., books.....	909	25.42
April 14.	Gustav E. Stechert, books.....	910	150.72

Total expended..... \$3,936.19
 Balance undrawn..... 1,063.81

\$5,000.00

FOR THE GEOLOGICAL SURVEY.

For the fiscal year ending July 31, 1892.....	\$7,500.00
Balance undrawn from appropriation of 1888.....	359.50
Total	\$7,859.50

DISBURSEMENTS.

DISBURSEMENTS.			No. voucher.	
July	7.	Minneapolis Office and School Furniture Co., 1 antique oak office table.....	26	\$28.00
July	22.	N. H. Winchell, stationery supplies and freight.	27	33.35
July	3.	N. H. Winchell, canvas bags and freight.....	28	16.90
Aug.	17.	N. H. Winchell, miscellaneous.....	99	92.15
Aug.	26.	R. B. Lees, labor and material	100	23.25
Sept.	28.	Henry F. Nachtrieb, expense of geology and natural history survey.....	162	470.78
Sept.	24.	N. H. Winchell, salaries of employes, miscellaneous.	173	400.40
Sept.	11.	N. H. Winchell, pocket vouchers, freight and labor.....	174	206.76
Sept.	11.	N. H. Winchell, salaries of employes.....	175	610.00
Oct.	1.	N. H. Winchell, salaries of employes....	176	468.00
Sept.	27.	Conway McMillan, salaries of employes, freight.....	177	504.68
Sept.	1.	Clark & McCarthy, books.....	178	14.50
Sept.	28.	N. H. Winchell, miscellaneous expenses.....	181	163.23
Nov.	2.	N. H. Winchell, salaries of officers, freight, postage.....	265	188.82
Oct.	31.	N. H. Winchell, apparatus for petrographic lab.....	266	130.00
Oct.	3.	Henry H. Shufeld & Co., 2 bbls. alcohol.....	267	57.90
Sept.	4.	K. F. Koehlers', antiquarium equipment.....	322	32.03
Nov.	28.	N. H. Winchell, salaries of employes, miscellaneous.....	377	173.29
Sept.	28.	N. H. Winchell, freight, express, hardware... ..	378	35.37
Dec.	1.	Holms & Johnson, 1 geological case	379	22.00
Oct.	13.	James W. Queen & Co, slides.....	380	21.90
Dec.	31.	N. H. Winchell, salaries, postage and express.....	458	214.35
Dec.	31.	Holms & Johnson, 1 case.	459	14.00
Feb.	27.	N. H. Winchell, salaries, freight, apparatus.....	625	200.81
Jan.	27.	N. H. Winchell, pocket vouchers, salaries.....	551	190.15
Mar.	31.	N. H. Winchell, salaries of employes	626	195.75
Mar.	26.	N. H. Winchell, salaries, express and freight.....	744	149.44
April	25.	Conway McMillan, books for library.....	787	129.00
April	27.	N. H. Winchell, salaries, freight, feed.. . . .	808	177.57
June	4.	N. H. Winchell, salaries of employes, freight.....	911	247.98
June	1.	N. H. Winchell, pocket vouchers, salaries.....	912	307.23
May	14.	James Fullerton, skeleton of wolf and deer skin.....	913	21.00
June	1.	R. Friedländer & Son, equipment.....	914	189.06
Mar.	15.	K. F. Koehlers, antiquarium equipment	915	130.76
Mar.	26.	Bausch & Lomb Optical Co., apparatus.....	916	63.15
June	27.	N. H. Winchell, pocket vouchers, freight, postage.....	973	93.99
May	19.	Eimer & Amund, chemical supplies.....	974	240.98
June	8.	Henry F. Nachtrieb, sundry petty accounts....	975	75.59
July	15.	N. H. Winchell, salaries of employes.....	976	385.00
		N. H. Winchell, bill paid by state auditor.....		110.50
Total.....				\$6,829.61
Balance undrawn.....				1,029.89
				\$7,859.50

FOR THE SCHOOL OF MINES.

For opening and equipping the school of mines, available on and after Aug. 1, 1891.....	\$6,000.00
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DISBURSEMENTS.

Jan. 9.	E. H. Sargent & Co., furnaces, pighead, rolls.....	513	\$155.00
Jan. 30.	R. B. Lees, carpenter work and material.....	514	98.82
Dec. 15.	Becker Bros., assay balances and weights.....	515	346.35
Jan. 2.	Eimer & Amend, chemical supplies.....	516	397.88
Feb. 23.	Wm. R. Appleby, freight, express, bottles, brushes.....	584	36.94
Feb. 12.	Mary E. Mackintosh, books.....	585	89.60
Mar. 29.	Peter Christianson, service in assaying department.....	699	40.00
Feb. 9.	E. H. Sargent & Co., chemical apparatus.....	701	33.80
Dec. 23.	Twin City Pavement Co., sidewalks.....	412	223.00
Dec. 28.	The Cody-Hineline Co., plumbing work and material.....	414	26.95
Feb. 19.	W. F. Porter & Co., labor, pipe and fittings.....	593	50.00
Jan. 25.	Littlefield & Moore, setting pipes for 10 furnaces, etc.....	509	47.20
Dec. 31.	R. B. Lees, labor and material in boilerhouse.....	425	48.05
May 30.	Wm. R. Appleby, freight, expense, petty bills....	917	31.76
Mar. 29.	E. H. Sargent & Co., apparatus.....	918	70.77
Total.....			\$1,696.12
Balance unexpended.....			\$4,303.88
			\$6,000.00

SPECIAL ANNUAL APPROPRIATION FOR SALARIES OF INSTRUCTORS IN THE SCHOOL OF MINES AND FOR ELECTRICAL ENGINEERING.

Annual appropriation..... \$4,500.00

DISBURSEMENTS.

Sept.	Geo. D. Shepardson, salary.....	\$150.00
Oct.	Wm. R. Appleby, salary.....	200.00
Oct.	Geo. D. Shepardson, salary.....	150.00
Nov.	Wm. R. Appleby, salary.....	200.00
Nov.	Geo. D. Shepardson, salary.....	150.00
Dec.	Wm. R. Appleby, salary.....	200.00
Dec.	Geo. D. Shepardson, salary.....	150.00
Jan.	Wm. R. Appleby, salary.....	200.00
Jan.	Geo. D. Shepardson, salary.....	150.00
Feb.	Wm. R. Appleby, salary.....	200.00
Feb.	Geo. D. Shepardson, salary.....	150.00
March.	Wm. R. Appleby, salary.....	200.00
March.	Geo. D. Shepardson, salary.....	150.00
April.	Wm. R. Appleby, salary.....	200.00
April.	Geo. Shepardson, salary.....	150.00
May.	Wm. R. Appleby, salary.....	200.00
May.	Geo. D. Shepardson, salary.....	150.00
June.	Wm. R. Appleby, salary.....	200.00
June.	Geo. D. Shepardson, salary.....	150.00

Total.....	\$3,300.00
Balance unexpended.....	\$1,200.00
	\$4,500.00

SUMMARY OF DISBURSEMENTS BY DEPARTMENTS FOR THE FISCAL YEAR ENDING JULY 31, 1892.

DEPARTMENTS.	From current expense.	Special appropriation.	Totals.
General University.....	\$15,713.22	.....	\$15,713.22
College of Science, Literature and the Arts	68,931.00	\$6,043.77	74,974.77
School of Agriculture.....	21,866.82	298.76	22,165.58
Veterinary Department.....	5,998.43	86.81	6,085.24
Military Tactics.....	984.75	.....	984.75
Mechanic Arts.....	16,286.38	1,779.48	18,065.86
Geological Survey.....	4,571.56	6,829.61	11,401.17
Department of Law.....	6,567.87	716.27	7,284.14
Department of Medicine.....	20,854.70	.....	20,854.70
Experiment Station—			
General Station.....	\$7,094.99		
Division of Agriculture.....	7,800.07		
Division of Chemistry.....	3,354.43		
Division of Entomology.....	1,508.20		
Division of Horticulture.....	2,981.13		
	22,738.92	7.22	22,746.14
Totals	\$184,513.65	\$15,761.92	\$200,275.57

BUILDING AND EQUIPMENT FUND.

Statement of receipts and disbursements for the fiscal year commencing August 1, 1890 and ending July 31, 1891.

Summary of amounts placed to the credit of the building and equipment fund of the University during the fiscal year ending July 31, 1891.

Balance on hand August 1, 1890.....	\$6,372.37	
Appropriation available on and after Aug. 1, 1890.	75,000 00	
	<hr/>	\$81,372.37

RECEIPTS.

Amounts received from state treasurer on auditor's warrants:

June expense list.....	*\$12,157.05	
July expense list.....	5,493.60	
August expense list.....	5,044.15	
September expense list	12,516.29	
October expense list.....	4,560.77	
November expense list.....	18,667.18	
December expense list... ..	1,949.88	
January expense list.....	4,429.17	
February expense list.....	1,167.65	
March expense list.....	3,318.54	
April expense list.....	759.43	
May expense list.....	2,714.10	
June expense list.....	710.22	
	<hr/>	
Total.....	\$73,488 03	
Balance undrawn.....	7,884.34	
	<hr/>	\$81,372.37

*Not sufficient funds in treasury to meet June expense list—was paid in August.

DISBURSEMENTS.

1891	COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.	No.	voucher.
June 19.	Buffalo Dental Mfg. Co., 3 water heaters.....	1,012	\$35.10
June 27.	F. A. Fisher & Co., lab. and material to construct phys. lab.	1,015	8,000.00
May 19.	V. Fric, equipment for department Biology	1,016	403 41
June 24.	Haxtun Steam Heating Co., heat. chem. and phys. labora.	1,017	3,000.00
May 20.	James W. Queen & Co., supplies for chem. laboratory.....	1,018	212.30
May 30.	Morris & Wilson, equip. Biolog laboratory	1,019	13.58
June 24.	Alex. A. Bates, labor around Pillsbury Hall.....	1,020	19.80
June 24.	John Beckman, 103 loads gravel around Pillsbury Hall....	1,021	41.20
March 26.	W. Oehmke, equipment biology	1,023	84.60
June 21.	Geo. L. English, equip phys. and chemical laboratory....	43	51.75
Feb. 6.	Mpls. Office and school Furn. Co., equip. Pillsbury Hall....	45	3,661.42
June 20.	Gustav E. Stechert, equip. department of Botany.....	46	9.94
June 16.	Warmbrum, Quilitz & Co., equip. department Biology....	48	963.05
June 23.	A. Montadon, equip. department Bology	51	279.82
May 9.	James W. Queen & Co., equip. department Physics	95	513.80
July 7.	James W. Queen & Co., equip. department Physics	96	189.08
Aug. 15.	James W. Queen & Co., equip. department Physics	97	244.30
Aug. 1.	Mpls. Gas Light Co., pipe and fittings in phys. & chem. lab.	98	30.65
Aug. 8.	Hensel, Bruckman & Lorbachu, equip. for phys & chem. lab.	99	10.93
Aug. 26.	James A. Dodge, freight and cartage for chem. laboratory	100	18.29
Aug. 22.	Haxton Steam Heat. Co., heat. appar'ts in chem& phys. lab.	101	1,831.82
Aug. 26.	Noyes Bros. & Cutler, chemical supplies.	102	15.82
July 14.	Whitall, Tatum & Co., chemical supplies.....	103	396 16
Sept. 1.	Fred S. Jones, freight, cartage and supplies.....	104	31.98
July 11.	G. Leuthold, equip. for phys. laboratory.....	105	385.90
July 10.	R. Yung, equip. for department of Biology.....	106	738.29
Aug. 9.	Eimer & Amend, chemical supplies.....	107	386.53
Aug. 2.	Herr A. Kräss, equip. for department of Phys.....	108	91.12
July 22.	Warmbrum Quiltz & Co., equip. for department of Phys...	109	159.47
Sept. 25.	W. S. Nott Company, hose, reels and nozzles	172	199.00
Sept. 30.	Joseph R. Hofflin & Co., bottles	173	13.80
Sept. 13.	Walter Orhmke, equipment for department Biology.....	174	118.02
Sept. 5.	Bullock & Crenshaw, chemical supplies	175	16.35
Sept. 2.	Eimer & Amend, equipment for department of Botany....	176	125.56
Sept. 19.	Eimer & Amend, equipment for department of Chemistry	177	695.70
Sept. 1.	Eimer & Amend, equipment for department of Chemistry	178	1,645.86
Sept. 29.	James W. Queen & Co., apparatus for dept. of Chemistry.	179	473.60
Aug. 1.	James W. Queen & Co., apparatus for dept. of Chemistry.	180	320.00
Aug. 30.	Edward C. Cauvett, sewer and soil pipe	181	131.10
Aug. 16.	Littlefield & Moore, galvanized iron piping in chemical and physical laboratory attic.. ..	182	130.00

		No. voucher.	
Sept. 19.	Rand. McNally & Co., equipment for department of Mineralogy and Geology.....	183	\$11.70
Sept. 13.	W. H. Wahnsley, equipment for department of Chemistry.....	184	96.90
Sept. 25.	James A. Dodge, labor in and around chemical laboratory.....	185	110.69
Sept. 26.	James A. Dodge, freight and cartage for chem. laboratory.....	186	27.52
Sept. 26.	Warner Brothers, hardware in chemical department.....	187	9.05
Sept. 26.	F. A. Fisher & Co., materials and labor used to construct physical and chemical laboratory.....	188	7,000.00
Sept. 11.	Lyman-Elieel Drug Co., supplies for physical laboratory.....	189	12.75
Sept. 29.	E. B. Johnson, freight on equipment.....	190	600.07
Sept. 1.	Warner Bros., hardware supplies for chemical laboratory.....	191	101.15
Sept. 26.	Minneapolis Office and School Furniture Co., 1 cabinet in department of Biology.....	193	100.00
Sept. 1.	Eimer & Amend, equipment in physical laboratory.....	194	85.00
Aug. 29.	Westinghouse, Church, Kerr & Co., equipment in physical laboratory.....	195	250.00
Sept. 13.	North Star Boiler Works, equipment in chemical laboratory.....	196	26.55
Aug. 18.	Gustav E. Stechert, equipment for chemical laboratory.....	197	110.92
Oct. 31.	Eimer & Amend, equipment for chemical laboratory.....	280	223.87
Aug. 28.	James W. Queen & Co., equipment for physical laboratory.....	281	94.00
Sept. 13.	North Star Boiler Works, tank for chemical laboratory.....	282	26.55
Sept. 25.	Noyes Bros. & Cutler, equipment for department of Mineralogy and geology.....	283	11.53
Oct. 29.	F. A. Fisher & Co., on contract for b'ld'g chem. laboratory.....	284	2,371.03
Oct. 1.	Edward C. Canvett, plumbing Pillsbury Hall.....	285	40.00
Oct. 28.	Houghton-Mifflin Co., equipment for dep't. of Botany.....	286	25.00
Mar. 20.	J. P. Gray, equipment for department of Biology.....	288	54.40
Oct. 18.	Wales & Co., equipment for department of Botany.....	289	11.42
Oct. 17.	Thos. H. Gardiner, equipment for department of Botany.....	290	13.80
Oct. 10.	Geo. L. English, specimens for chemical laboratory.....	291	21.50
Sept. 25.	S. Kixmorller, grading around chem. and phys. laboratory.....	293	54.00
Oct. 27.	New England Furniture Co., desk in physicians laboratory.....	294	24.75
Oct. 6.	Whitall, Tatum & Co., equipment chemical laboratory.....	295	24.88
Oct. 17.	Deacon & Co., equipment department of Botany.....	296	10.50
Oct. 20.	Eimer & Amend, equipment department of Physics.....	297	31.27
Sept. 29.	Julius Bien & Co., equipment dep't of Geol. and Mineralogy.....	298	50.00
Oct. 16.	Morris & Wilson, equipment department of Biology.....	399	18.78
Nov. 1.	Gustav E. Stechert, equipment department of Botany.....	301	69.62
Oct. 21.	L. S. Buffington, architect's fees.....	302	679.33
Sept. 16.	Siemens & Halske, equipment.....	303	465.66
Dec. 1.	L. S. Buffington, services as architect in construction of chemical and physical laboratory.....	377	420.67
Nov. 12.	Eimer & Amend, equipment for chemical laboratory.....	380	99.45
Nov. 10.	A. E. Foot, equipment for chemical laboratory.....	381	28.86
Nov. 14.	Twin City Sidewalk and Paving Co., 492 yards walk.....	384	492.00
Nov. 30.	H. Downs & Son, dirt delivered to University grounds.....	385	180.00
Nov. 6.	Meyrowitz Brothers, wire covers for department of Botany.....	386	4.50
Nov. 5.	The Educational Supply Co., equipment for dep't of Botany.....	388	40.00
Nov. 22.	James A. Dodge, freight for chemical laboratory.....	289	48.53
Nov. 18.	C. P. Willimott & Co., equipment of new laboratory.....	390	17.50
Nov. 19.	Barnard Bros & Cope, chairs.....	391	97.63
July 7.	Elisha T. Jenks, racks and brackets.....	393	5.24
Nov. 25.	F. A. Fisher & Co., labor and material for Pillsbury Hall.....	396	2,139.46
Nov. 25.	F. A. Fisher & Co., labor and material for chem. laboratory.....	397	10,370.65
Nov. 25.	E. F. Comstock & Co., grading around chemical laboratory.....	398	1,616.52
Nov. 21.	Eimer & Amend, equip. for Cor. S. L. and A.....	480	48.52
Nov. 7.	Folds Griffith & Colver, equip. for dept. Botany and Geol.....	481	109.80
Jan. 2.	C. W. Hall, equip. for dept. Geol. and Mineralogy.....	482	40.98
Dec. 15.	Frank Heywood & Co., equip. for dept. Geol. and Mineralogy.....	483	10.50
Dec. 16.	Edward C. Canvet, plumbing.....	484	9.50
Dec. 31.	Gustav E. Stechert, equip. for Botanical dept.....	485	383.20
Nov. 1.	Edward C. Canvet, equip. for chem. and phys. laboratory.....	490	162.22
Jan. 1.	C. S. Wentworth & Co., equip. for chemical laboratory.....	566	42.45
Oct. 20.	Carl Zeiss, equip. for physical laboratory.....	568	177.40
Nov. 24.	Elliott Brothers, equip. for physical laboratory.....	569	177.27
Dec. 17.	Eimer & Amend, equip. for department of Botany.....	570	105.48
Jan. 1.	Lockwood, Upton & Co., equip. for physical laboratory.....	571	48.40
Jan. 10.	F. A. Fisher & Co., build. Pillsbury hall, chem. and phys. laboratory.....	572	247.85
Jan. 27.	Fred. S. Jones, freight on equip. physical laboratory.....	573	30.82
Feb. 28.	Gustav E. Stechert, books on Botany, Geol., Eng. literature.....	636	353.09
Feb. 1.	C. S. Wentworth, equip. phys. and chemical laboratory.....	637	67.84
Nov. 22.	Eng. Albrecht, equip. of dept. of Botany.....	638	195.17
Feb. 27.	Fred S. Jones, equip. for physical laboratory.....	639	5.55
Feb. 29.	S. H. Chadbourne, equip. for dept. of Biology.....	640	17.25
Jan. 27.	K. F. Koehlen, equip. for dept. of Biology.....	641	69.84
Mar. 1.	F. A. Fisher & Co., labor and material for main building.....	642 1/2	309.39
Mar. 25.	M. Lara & Co., equip. dept. biology.....	693	4.67
Mar. 7.	Morris & Wilson, equip. dept. Biology.....	695	35.00
Mar. 31.	Gustav E. Stechert, equip. dept. Botany.....	698	43.76
Feb. 24.	S. H. Chadbourne, equip. dept. Biology.....	699	7.50
Mar. 7.	Wales & Co., equip. dept. Biology.....	700	5.85
Mar. 1.	Middlemist & Erle, equip. dept. S. L. and Arts.....	701	2.25
Mar. 7.	Walter S. Pardee, services as Architect.....	896	100.00
May 31.	Mpls. Office and School Fire Co., equip. Pillsbury hall and chemical laboratory.....	897	98.40

			No. voucher.	
May	20.	Bradstreet, Thurber & Co., equip. for Geological Survey....	899	\$16.00
June	8.	Holm Johnson, equip. for Geological Survey.....	900	50.00
May	9.	Warmbrum Quiltz & Co., equip. for dept. Biology.....	901	214.50
June	1.	M. Lara & Co., equip. for dept. Biology	980	23.18
Total				\$57,327.94

SCHOOL OF AGRICULTURE.

June	1.	Samuel B. Green, labor.....	1,013	\$12.37
May	13.	D. C. Martin, grading about farm school building.....	1,014	255.34
July	1.	Samuel B. Green, labor at farm school.....	1,022	27.60
July	17.	Samuel B. Green, labor at farm school.....	1,024	51.75
July	18.	D. C. Martin, team work at farm school.....	47	109.53
July	19.	A. Reesberg, stone work at school of agriculture.....	50	190.00
July	19.	Samuel B. Green, labor around grounds.....	52	78.09
Sept.	6.	Fairbanks, Morse & Co., tank in school building.. ..	192	105.00
Sept.	2.	W. P. Hemenway, lumber used in school building.....	287	37.71
Oct.	27.	Salisbury, Rolph & Co., equipm't for school of agriculture,	800	98.25
Oct.	16.	Globe Furniture Co., desks for school of agriculture.....	376	350.00
Nov.	1.	D. C. Martin, excavating.....	378	108.71
Nov.	11.	Robert Olson, labor in and about school building.....	382	21.00
Dec.	8.	Kilroe Bros., material and labor in laboratory building,	383	2,000.00
Nov.	25.	St. Anthony Furniture Co., tables	383	62.25
Nov.	26.	Boutelle Bros., furniture for school of agriculture	392	136.55
Oct.	15.	George Marsh, labor of grading, etc.....	394	22.00
Nov.	1.	W. H. Hemenway, bill of lumber.....	395	390.49
Nov.	28.	Russell, Boynton & Co., pipe and labor at state farm school	486	44.96
Nov.	28.	W. F. Porter & Co., equipment for chemical laboratory....	488	400.00
Dec.	26.	Boutell Bros., furniture, etc., at school of agriculture	489	56.50
Dec.	23.	Trainor Bros, labor and material for chemical laboratory		
		at school of agriculture	491	600.00
Jan.	23.	H. Kelly & Co., equipment chemical laboratory.....	563	500.00
Dec.	23.	W. F. Porter & Co., heating plant in laboratory building..	564	1,087.50
Jan.	21.	Kilroe Bros., labor and material at laboratory building....	565	2,000.00
Dec.	26.	James Kenholtz, equipment for school of agriculture.....	567	12.00
April	1.	W. F. Porter & Co., equipment for school of agriculture....	642	139.92
Jan.	31.	W. F. Porter & Co., heating chemical laboratory.....	692	362.50
Feb.	17.	Henry Troemner, equipment chemical laboratory....	694	122.98
Mch.	16.	Kilroe Bros., labor and material chemical laboratory	696	1,500.00
Jan.	31.	Trainor Bros., labor and material chemical laboratory....	697	1,200.00
Mch.	1.	Middlemist & Earl, equipment chemical laboratory at		
		school of agriculture.....	701	34.03
Sept.	18.	R. Fuess, equipment departm't of Geology and Mineralogy,	783	686.28
Feb.	5.	Eimer & Amend, equipment department of Geology and		
		Mineralogy.....	784	73.15
May	7.	Charles R Aldrich, services as architect	898	279.50
May	31.	Kilroe Bros., labor and material chemical laboratory.....	902	1,380.70
May	1.	H. Kelly & Co., equipment new chemical laboratory....	903	575.00
Dec.	1.	H. Kelly & Co., slab and bowls at school of agriculture.....	977	50.00
July	1.	H. Kelly & Co., plumbing, labor and material.....	978	400.00
June	26.	N. Larson, equipment for school of agriculture.....	979	190.95
Total				\$15,752.62

VETERINARY DEPARTMENT.

July	26.	W. F. Porter & Co., changing boiler in Veterinary dept....	49	150.00
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LAW DEPARTMENT.

Mar.	1.	F. A. Fisher & Co., labor and material.....	642½	9.60
June	30.	J. L. Sprague, earth hauled around law library.....	981	46.08
Total				\$55.68

EXPERIMENT STATION.

Nov.	25.	W. P. Hemenway, lumber for hog house	379	15.17
Dec.	12.	F. G. McMillan, carp'r work on lib'y and greenhouses, etc.	487	83.70
Oct.	6.	Nelson, Tenney & Co., lumber.....	292	102.92
Total.				\$201.79

BUILDING AND EQUIPMENT FUND.

Statement of receipts and disbursements for the year commencing August 1, 1891 and ending July 31, 1892.

Summary of amounts placed to the credit of the building and equipment fund of the University during the fiscal year ending July 31, 1892.

Balance on hand August 1, 1891	\$7,884.34	
Amount of appropriation available on and after March 1, 1892.....	40,000.00	
Total.....		\$47,884.34

RECEIPTS.

Amounts received from state treasurer on auditor's warrants:

July expense list.....	\$344.38	
August expense list.....	7,539.96	
March expense list.....	16,153.11	
April expense list.....	7,700.00	
May expense list.....	1,275.00	
June expense list.....	9,775.00	
July expense list.....	1,000.00	
Total.....	\$43,787.45	
Balance on hand July 31, 1892.....	4,096.89	
		\$47,884.34

DISBURSEMENTS.

GENERAL UNIVERSITY.

Aug. 1.	Wheaton & Reynolds, cases for zoölogical department.....	130	1,999.00
COLLEGE SCIENCE, LITERATURE AND ART.			
Aug. 3.	A. Ziegler, equipment for department Biology.....	50	\$89.13
Nov. 13.	James W. Queen & Co., induct coil with vibrat coil and interrupter.....	51	255.25
July 15.	Warmbrum, Quilitz & Co., equipment for department Biology	131	7.84
July 29.	K. F. Koehler, equipment for department Biology.....	133	346.25
July 25.	R. Treidländer & Son, equipment for dept. Biology.....	134	1,008.46
Total. . .	.....		\$1,706.93

SCHOOL OF AGRICULTURE.

Aug. 24.	Jos. Congdon, labor and materials on dairy hall	135	\$4,091.66
Oct. 30.	Jos Congdon, on building dairy hall.....	661	405.50
Sept. 24.	Jos. Congdon, second estimate.....	662	3,000.00
Dec. 11.	Robinson & Cary, one engine.....	663	575.00
Nov. 25.	Archambo & Morse, heating and power plant.....	664	1,375.00
Dec. 2.	Joseph Congdon, completion of contract.....	665	4,156.84
Nov. 23.	Crockett, Siman and Fitch Bros., 80 sheep.....	666	270.00
Jan. 23.	Archambo & Morse, balance on heating contract.....	667	650.00
Dec. 8.	W. J. Hawkins, plumbing in dairy hall.....	668	605.00
Jan. 1.	W. J. Hawkins, extending hot and cold water pipes.....	669	23.74
Jan. 21.	W. P. Hemenway, bill of lumber.....	670	39.06
Nov. 11.	Cornish, Burtis & Green Co., equipment for dairy dep't....	671	345.66
Dec. 26.	Robinson & Cary Co., plumbing in dairy.....	672	54.37
Dec. 12.	Archamba & Morse, coil in basement of dairy.....	673	20.00
Dec. 21.	Chas R. Aldrich, plans and specifications for dairy hall....	674	754.20
Nov. 30.	Creamery Package Mfg. Co., equipment for dairy.....	675	355.36
Dec. 22.	Vermont Farm Machine Co., equipment for dairv.....	676	22.88
Total. . .	.....		\$16,744.27

LAW DEPARTMEENT.

Aug. 12.	S. Kixmoller, sodding and laying walk at law bldg.	122	\$86.75
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MEDICAL DEPARTMENT.

1892.			
Oct. 30	Fagan Brothers, excavating for medical college.....	677	\$258.85
Nov, 3	Reed & Stem, services as architects.. ..	678	741.65
Jan. 1	Erick Lund, work and material on medical college.....	679	400.00
Meh. 1	Erick Lund, work and material second estimate.....	680	570.00
Dec. 1	Erick Lund, work and material third estimate.....	681	1,530.00
May 2	Erick Lund, work and material fourth estimate.....	770	7,700.00
June 1	Erick Lund, work and material fifth estimate	850	1,275.00
July 1	Erick Lund, work and material sixth estimate.....	919	9,975.00
July 15	E. Kneeland, work on chemical laboratory building.....	977	1,000.00
Total			\$23,250.50

SUMMARY OF BUILDING AND EQUIPMENT ACCOUNT FOR THE YEAR
ENDING JULY 31, 1891.

College of Science Literature and the Arts	\$57,327.94
School of Agriculture.....	15,752.62
Veterinary Department.....	150.00
Law Department.....	55.68
Experiment Station.....	201.79
Total	<hr/> \$73,488.03

SUMMARY FOR THE YEAR ENDING JULY 31, 1892.

General University.....	\$1,999.00
College of Science Literature and the Arts.....	1,706.93
School of Agriculture.....	16,744.27
Law Department.....	86.75
Medical Department.....	23,250.50
Total	<hr/> \$43,787.45

REPORT OF EXPERIMENT STATION,

ST. ANTHONY PARK.

To the Board of Regents of the University of Minnesota:

I have the honor to transmit herewith the biennial report of the Experiment Station for the period beginning December 1st, 1890, and ending November 30th, 1892. This report includes the report of the director and the reports of the heads of the different divisions of the station, a tabulated statement of the transactions in live stock and grain raising, with a financial statement showing the receipts and all the expenditures, except the salaries of the members of the staff; all of which is respectfully submitted.

CLINTON D. SMITH, Director.

St. Anthony Park, Minn., Dec. 1, 1892.

ADDITIONS TO EQUIPMENT.

The State of Minnesota with its seven million acres of improved land under cultivation, embracing the wheat fields of the Red River valley on the north, the fruit farms of the Park region and the farms of the diversified crops of the central and southwestern part, and the dairy farms of the southeastern section of the State, presents to the Experiment Station that attempts to aid her in developing her still new industries, a set of questions of so great importance and of such widely varying character that, to answer them at all helpfully, the station must be most thoroughly manned and equipped. The growth of the State the past two years has been marvelous. Agricultural industries that were, at the beginning of this period, still in their infancy, have grown to importance and now demand the attention of all interested in the welfare of the farmer and his prosperity. Prior to the year 1891 the demand for experiments along dairy lines had not made itself manifest; but the high price of dairy goods since then and that increase in the density of population in the southern part of the State which made the starting of creameries over a considerable extent of territory both possible and profitable, gave a strong impetus to the dairy business that has placed it next in rank to wheat raising in value of products exported. Taking into account the home consumption, this industry has risen almost to a level with wheat raising in value of total products. Recognizing the importance of accurate knowl-

edge to the dairy industry at this growing and formative period of its history, the Regents wisely and generously provided for the carrying on of experiments in dairy lines by erecting on the site of the former station building a commodious dairy hall with an equipment including apparatus, for experiments in the handling of milk both for cheese and butter making, as well as the machinery and outfit necessary for giving thorough and complete instruction to the students in agriculture at the school and college, in the latest and best methods of dairy work. The total cost of building and equipment is not far from \$17,000. In the second story of this building are located four offices and a mailing room for the use of the station corps. On the main floor besides the entrance hall, dressing room, wash room and cold storage rooms, there are two rooms 42x30 feet, both abundantly lighted and well ventilated. One of these rooms is used in butter making, the other is equipped for cheese making. The building is heated by steam supplied by a 40-horse power boiler in the basement, which also furnishes power for a 26 H. P. engine used in driving the steam separators, churns and butter workers. All of the shafting in the building is kept below the main floor and the machinery is driven by belts going up through the floor. The light and view of the butter room is thus left unobstructed by shafting or belting, and the danger from loose belts hanging on a revolving shaft is thus entirely obviated. The plumbing of the rooms is so arranged that while the cheese and butter rooms are provided with cold and hot water and with steam at convenient points, the pipes obstruct neither the light nor free passage in any direction across either room. In the basement, besides the engine and fuel rooms and experimental curing rooms, there is a large lecture room into which animals are led for illustration in the breeding classes.

The equipment of the dairy hall for purposes of experiment in dairy work is very complete. The thanks of the station authorities are due the DeLaval Separator Company, of 74 Cortlandt street, New York; P. M. Sharples, of West Chester, Penn.; Davis & Rankin, of Chicago, Ill.; Vermont Farm Machine Company, of Bellows Falls, Vt., and Cornish, Curtis & Greene Company, of St. Paul, Minn., for their generosity in loaning the station the use of the separators which they respectively make or handle, for testing and for use in the factorymen's course at the dairy school.

A herd of cows comprising the best obtainable specimens of Guernseys, Jerseys, Holsteins, Shorthorn and Polled Angus breeds and grades, has been purchased as types for study by the scholars of the agricultural school, and for use in the various experiments heretofore reported and in progress. The milk of these cows is used in instructing the students in butter and cheese making as well as for experimental purposes. A full report of the amount eaten by each individual of this herd, and the amount of milk and butter fat yielded will be reported in a future bulletin. These additions to the equipment of the station make possible experimentation that can not fail to be one of great advantage to the farmers of the State.

At the date of the last biennial report a chemical laboratory was in process of erection. This building has been completed. The chemist reports that the equipment of the laboratory is unusually full and complete

in lines relating to higher organic work, and the sugar producing plants, and for soil work. The chemical laboratory is also used by the School of Agriculture for instruction in agricultural chemistry.

The insufficiency of the water supply has heretofore been a constant source of annoyance to the school and station. At the first session of the dairy school in January, 1892, the well was pumped dry and it became necessary to haul water from the St. Paul city water supply at Merriam Park. At various other times during the winter serious inconvenience was caused by the supply becoming exhausted at critical periods. To remedy this chronic difficulty the well has been deepened during the summer of 1892 from 187 to 226 feet, and the water is now derived from a stratum of St. Peter sandstone lying immediately below a layer of limestone forty feet in thickness. This source seems to be inexhaustible. A tank holding over 1,800 barrels and elevated sixty feet above the ground has been erected at a cost of \$2,000 on the hill west of the dwelling house. The height of this tank is sufficient to throw water to the topmost story of any building on the grounds. A sewer, built to give suitable drainage to the school buildings, serves also as a drain for the chemical laboratory, obviating the necessity of cesspools heretofore used.

CHANGES IN STATION STAFF.

This biennial period has been characterized by a number of changes in the working force of the station. In February, 1891, the resignation of Prof. N. W. McLain, the former director, was accepted, and on the first of the following May the appointment of the present director went into effect. Dr. Olaf Schwartzkopf, veterinarian, on account of the pressing duties occasioned by the inauguration of the college of veterinary medicine of the university, was obliged to withdraw from the station staff early in the summer of 1891. His successor, Dr. Christopher Graham, B. S., M. V. D., was appointed in August, 1892, and began his connection with the station the first day of September, 1892. The connection of Mr. E. F. Batten, the accountant of the station ceased on the first day of June 1891, and his successor, the present secretary of the station staff, Mr. J. A. Vye, whose appointment dates from that time, began his work with the station. On the first day of December, 1891, Prof. D. N. Harper, the chemist, resigned his position here to take up another line of work. He was succeeded by Prof. Harry Snyder, the former assistant in chemistry in the experiment station of the Cornell University at Ithaca, New York. Prof. W. M. Hays, the efficient agriculturist, severed his connection with the station on the first of January, 1892, to accept a position with the North Dakota Agricultural College.

In June of the present year, Prof. T. L. Haecker was appointed assistant in agriculture and placed in charge of the dairy experiments relating to butter making.

The time of the station workers has been divided between experimental work and teaching. The sessions of the farm school begin in October and end in April. During that period a large share of the instruction in all of the branches of practical agriculture, horticulture, veterinary and entomology, is given by the members of the staff. This involves, for some members of the staff, three exercises a day. The preparation for the kind of teaching given in the school is a matter of no small importance. The students are bright, anxious to learn, and thoroughly progressive, and to

give them helpful instruction in the various lines in which they are interested requires careful and accurate preparation of both material for illustration and lectures. On the part, therefore, of the whole station staff but little time can be given during the winter to experimental work. A considerable share of the time of each member of the staff is rightfully taken up in answering questions, either for publication in the great agricultural weeklies or directly to the farmers interested.

To bring the station into more intimate relation with the farmers of the State and to draw the attention and interest of the agricultural communities to our work, the members of the staff have improved their opportunities to address meetings of the farmers whenever invited so to do. Many of the county fairs were visited and practical addresses given. During the summer of 1892 the time of Professor Haecker was occupied in visiting the creameries to give instruction where needed and to call the attention of the people employed in dairy work to the advantages offered by the school, and to the work done at the station. In this connection I must not fail to record the gratitude of the station staff to the railroads who have shown their kindness to the station and their appreciation of our work by granting free transportation to the director and other members of the staff when called to distant parts of the State on experimental work. This aid has been of invaluable service to the station. Our thanks are especially due to the officers of the Great Northern, the Chicago, Milwaukee & St. Paul, the Chicago, Minneapolis, St. Paul & Omaha, the Chicago & Great Western, St. Paul & Duluth, Minneapolis, St. Paul & Sault Ste. Marie, Northern Pacific and the Eastern Minnesota railroads. These railroads have also extended their courtesy to the station by transporting, free of charge, in many cases both to and from the station, the material used in our co-operative experiments when conducted by farmers along their respective lines.

In the spring of 1891, Mr. Chas. A. Pillsbury donated to the station 500 bushels of thoroughly cleaned, well selected superior Scotch fife wheat grading No. 1 hard, for the purpose of undertaking in a broad and comprehensive way an experiment to test the influences of variations of soil and climate on the yield and character of wheat. This wheat was scattered over typical areas in all the different sections of the State. From most of the farmers receiving the seed, reports were returned. The results were published in bulletin No. 23, and go to show that great care in selecting and cleaning seed wheat is rewarded by a larger crop, and that the grade of the wheat is largely determined by the character of the soil and climate of the place where the crop was raised. The thanks of the station are due Mr. Pillsbury for his philanthropy in donating this large amount of wheat.

The station farm comprises about 150 acres of land under cultivation, exclusive of pasture. This entire area is used annually in plot experiments, and in the production of the fodder and grain for the stock. To cultivate this thoroughly and keep it in proper shape for the inspection of visitors requires the employment of a large force of men, the management of which is no small task.

In field experiments during the year 1891, 155 plots have been used; during 1892, 181.

The management of the farm help, the care of these plots and the general execution of the experiments in the agricultural division of the station have been entrusted to Mr. Andrew Boss, the foreman of the farm. Besides skillfully managing the farm hands and the farm work generally, Mr. Boss has observed the progress of the experiments and kept notes concerning the plots and animals in detail, with painstaking fidelity. The director has thus been relieved entirely of the necessity of observing the details of the experiments.

The amount of property belonging to the university placed in the hands of the director has grown to be very large, and to manage it economically and skillfully a large amount of routine business is involved and absorbs a large share of the director's time. The office work, keeping accounts, the stenographic work and duties of secretary to the staff have been most efficiently performed by Mr. J. A. Vye, whose accurate business judgment and good sense have made his services invaluable.

The following bulletins have been issued during the biennial period :

Bulletin No. 13—A treatise on flax culture.

Bulletin No. 14—Swine, feeding for profit. Swine breeding. Sugar beets, their cultivation, the process of manufacture.

Bulletin No. 15—Wheat, a comparison of foreign and native varieties the selection and changing of seed.

Bulletin No. 16—Sheep scab, and how to cure it.

Bulletin No. 17—Migratory locusts in Minnesota in 1891.

Bulletin No. 18—Notes on strawberries and raspberries, 1891. Notes on sand cherries, buffalo berry and Russian mulberry. Evergreens from seed. Summer propagation of hardy plants.

Bulletin No. 19—Dehorning experiment. Cream raising by cold, deep setting. Experiments in cheese making—Incorporating cream into cheese. The Babcock test and churn.

Bulletin No. 20—Fertilizers. Improvement of timothy. Rape in Minnesota. Peas and oats. Field peas.

Bulletin No. 21—I. Sugar beets. II. Sorghum.

Bulletin No. 22—I. Comparison of corn, barley, corn and shorts, barley and shorts, corn, shorts and oil meal, and barley, shorts and oil meal in the ration of growing pigs. II. Corn vs. barley for fattening hogs. III. Corn meal, barley meal and a mixture of barley meal and oil meal compared. IV. Wet vs. dry food.

Bulletin No. 23.—WHEAT. I. Milling and baking tests. II. Co-operative tests with selected seed wheat. III. The frit fly. Preliminary report upon an insect injurious to wheat.

Bulletin No. 24.—Ornamental and timber trees, shrubs and herbaceous plants in Minnesota. Notes on their hardness and desirability.

Bulletin No. 25.—Notes on small fruit in 1892.

The best evidence of the value of the experiments is found in the fact that although the bulletins are issued in editions of 15,000, this number is inadequate to supply our present mailing list and at the same time furnish copies to be sent to new names which are constantly coming in.

The full reports of the heads of the different divisions which are appended and form a part of this report, need but little comment from me. It is the aim of the director and staff to make the station useful to as many of the important industries of the State as our means and equipment will warrant. The wheat raiser receives valuable information in the bulletins

of the entomologist on the means of fighting the locusts and the frit fly, and of the chemist in his work on fertilizers, milling and baking tests and co-operative tests with selected seed wheat. The fruit culturist has in bulletin number 24 a compendium of all the trees which he can with safety plant in his wind break or forestry plantation; and in bulletin 25 and 18 the reports on small fruits, grapes and apples as to their behavior on the station farm, with suggestions as to the best varieties for planting and as to methods of cultivation. The stock raiser is interested in the bulletins on swine feeding for profit; sheep scab, and how to cure it; in the dehorning experiments, and in the comparison of corn and barley alone or combined with other foods in the ration of growing pigs. The dairy division has offered to the farmers but one bulletin, largely treating of the effects of dehorning on quality and quantity of milk, and reporting experiments in butter and cheese making. The general farmer, in addition, will be interested in the treatise on flax culture, and on sugar beets and sorghum. Also in bulletin No. 20, on fertilizers, improvement in timothy and field crops, including rape in Minnesota, peas and oats and field peas.

The reorganization of the veterinary division of the station opens another wide field for profitable investigation. In New York, it is said, that every eighth death in the human family results from tuberculosis, and that this dread disease is taken into the system very often in the milk and flesh of affected animals. It is not believed that tuberculosis is proportionately as frequent in Minnesota, owing to climatic differences, but it still exists, and cases occur with alarming frequency. The communicability of the germs from cows to man through the medium of the milk, is well established, and it therefore becomes of vital importance to investigate the new means of diagnosis, like tuberculine, and then, if that is found satisfactory, test the question of the frequency of the disease among cattle in the State. Among horses there also exists a disease communicable to man, yet very difficult to diagnose, viz: glanders. Lately a new diagnostic agent has been suggested. The disease is supposed to be common among our horses, but the characteristic lesions are so obscure that certainty of diagnosis is well-nigh impossible.

These are given as but two instances of the kind of work that the veterinarian finds ready at hand as he begins his work. Fortunately, the general health of the animals of the State is most excellent, still occasional unusual outbreaks of contagious or epidemic disease call for the exercise of his skill in combatting them, and offer fields of useful research.

CLINTON D. SMITH, Director.

REPORT OF THE AGRICULTURAL DIVISION.

I. Animal Industry. No apology is needed for the fact that a large share of the time and means of the agricultural division has been expended in experimenting in lines of animal industry. As the State grows older and the adaptability of the land to wheat growing decreases, every farmer will become from necessity more or less a breeder of farm stock. He will find a great variety of foods produced in his own state and will not have to go out of its boundaries to import any by-products wherewith

to supplement his home grown fodder to form a perfect ration. Our experiments in live stock have therefore been directed to obtaining a better knowledge of the feeding stuffs of the State and to encourage their utilization at home and to prevent their exportation in the crude form.

The large number of cross bred pigs on the farm in the spring of 1891 offered the material for somewhat extended experiments in swine feeding. The report of the results of part of these experiments is found in bulletin No. 22. These tests were directed towards finding the value of barley as compared to that of corn in the ration of growing pigs and of fattening hogs. Thirty-four hogs were used in one experiment which led to the conclusion that when both grains were fed to pigs weighing 50 pounds, 100 pounds barley meal was found to produce as much gain as 119.5 pounds corn meal, and that even when mixed with shorts, barley meal was slightly superior to corn, but when the pigs had attained a weight of 125 pounds or more the relative value of the two grains for feeding purposes was reversed and 100 pounds of corn meal and shorts produced as great a gain as 119 pounds of barley meal and shorts mixed in equal proportions. Another experiment on two groups of hogs demonstrated that pigs could distinguish between good and poor barley and that they gained very much faster on the former than on the latter, but that in no case did these fattening hogs make as great gain from a given amount of barley as from a given amount of corn. It was also demonstrated that with young pigs the same feed when fed wet produced a greater gain than when fed dry because the animals would eat more of it, but that the gain per hundred pounds consumed was almost identical in the pens fed wet and those fed dry. Other experiments in pig feeding have been conducted the results of which are not yet reported.

A large amount of digestion work has been performed, the results of which are reported by the chemist.

With sheep, an experiment was conducted in the winter of 1891-2, to test the value of feeding pigeon grass seed, wild buckwheat, various grades of screenings, shrunken wheat, corn and barley, as food for fattening lambs. The results, while not conclusive, tend to show that pigeon grass seed has an appreciable value as a sheep food, though not so great as the poorest wheat screenings. The results of this experiment will be reported in connection with an experiment now under way, partly to test the same question.

A variety of experiments have been performed and are now in progress on the feeding of dairy cattle, the results of which will be reported in a future bulletin. A comparison of the feeding value of a quantity of corn put in the silo and an equal quantity field cured showed that the advantages of the silo in this dry climate where usually the fodder can be cured in the field with but very little rain, are not so great as in moister climates. The whole question of whether silos are to be recommended to the farmers or not has been taken out of the field of chemistry and experiment, and now rests for its decision on another question—Which of the two methods involves the less expense in handling the corn? Other comparisons of grain foods for dairy cattle have been conducted, the results of which go to show that barley compares very favorably with corn in a ration, that bran and oil meal are very profitable, if not indispensable factors in the ration where ensilage is used.

A very careful and complete record of the feed and yield of the dairy herd for the year has been kept, in order that we might study the individuality of the cows and the effect of the lapse of the period of lactation and the proximity to calving, not only upon the total yield of milk and butter fat, but upon the richness of the milk. This account with the cows necessarily cannot be closed until the date of this report. It is being worked up as rapidly as possible and will be ready for publication soon. It cannot fail to be a vast treasure house of information for the dairymen and will give them the ground work for a host of valuable lessons.

Experiments now in progress in animal industry are the comparison of cut and uncut clover in the ration of all kinds of farm stock, to test the question whether it will pay the farmer to cut his hay and mix his grain feed with it; a study with sheep as to the increased expense of fattening the animals out of doors as compared with the same animals in a barn, and whether it is possible in this climate to successfully fatten sheep without barn protection; and finally a comparison of the value of screenings and corn and barley in the ration of fattening lambs and a repetition of the former experiment, comparing the same field area of ensilage and field cured corn.

II. Plot experiments in 1891. Raising field peas for forage and for threshed grain has justly attracted the attention of the progressive stock raisers of the State. Peas offer another source of the protein in the supplementary foods. To test questions relating to quantity of seed per acre, methods of sowing, alone or mixed with oats, shallow or deep, 38 plots were sown to peas in 1891. The results are reported in bulletin 20, and how that although no great advantage seems to lie with either one of the four classes of field peas, improvement ought to be made by selection of plants of more erect habits. The seed may be sown with a shoe drill or plowed under to a depth of three or four inches, using from two to three bushels per acre.

A trial was made of rape as a forage for sheep. The result went to show that it is a valuable fodder for carrying the flock through the fall when the pastures are dried up and feed is short. Care should be exercised in obtaining the seed to get the kind that grows a succulent fodder and not bird seed rape. Experiments were also conducted to test the relative merit of sowing grains alone or mixed, which showed that where wheat and oats were sown together a marked improvement was noted in the quality of both grains though the quantity was not perceptibly increased.

Different methods of sowing oats were tried; sowing broadcast on stubble and working in with cultivators; sowing broadcast and plowing under, and broadcasting on spring plowed ground. Nine plots were used in this experiment, the results of which will appear in connection with similar work of this year in a subsequent bulletin.

Of the experiments of rolling oats after they had attained considerable height, the results seem to show that on over-rich fields, if they be rolled when twelve inches high, the luxuriance of the plant may be somewhat checked, and the oats will stand up better at harvest, and may yield a somewhat larger amount.

Eighteen varieties of corn were tested and various cultural experiments carried on, the results of which await publication.

The results of the experiments in sugar beet raising are reported in bulletin 21. It is shown that beets with a high per cent. of sugar and a high degree of purity can be raised in profitable quantities with reasonable care. The advisability of establishing beet sugar factories does not rest, however, upon this fact, but upon other considerations not within the scope of our experiments.

At Glyndon, Minn., a test of 75 varieties of imported Russian seed wheat was conducted.

III. Plot experiments in 1892. PROF. CLINTON D. SMITH. *Dear Sir:* In accordance with your request I submit the report of plot work done at the Station since December 1, 1891: ANDREW BOSS, Foreman.

Owing to the unusually wet and stormy season, the results of the field experiments are inconclusive and misleading, and at least a part of them should have another trial before being published.

WHEAT. Three experiments were started with wheat in the spring, as follows: I. Early and late seeding. II. A comparison of the broadcast seeder, the hoe and press drills. III. A variety test of sixty-six varieties of Russian wheat.

In the case of early vs. late seeding, four plots six rods long and one rod wide were used, containing in all nine-tenths of one acre. The results of this experiment were unfitted for publication by a severe rain and wind storm at the time of ripening, but are strongly in favor of early seeding.

The comparison of the seeder, hoe drill and press drill is in favor of the press drill. The plot sown with that implement ripening a week earlier than the one sown with the seeder and three days earlier than the one sown with the hoe drill.

The variety test is unfinished but bids fair to be complete, and will doubtless develop some good varieties of wheat. In addition to the above experiments there were eight acres of wheat raised on the farm which yielded 184 bushels, or twenty-three bushels to the acre.

OATS. The experiments with oats were as follows: Early vs. late seeding; light vs. heavy seed; fall vs. spring plowing.

Early vs. late seeding of oats is parallel with experiment No. 1 of wheat with the same general results.

The comparison of the broadcast seeder, the hoe and press drills in oats was performed on a much larger scale than the one in wheat, each plot containing one and one-third acres. The results are again in favor of the press drill as the straw stood up better, filled better and yielded more for the same amount of seed.

The variety tests, light vs. heavy seed, thick vs. thin seeding, and fall vs. spring plowing are not yet finished, but the results will not be very satisfactory owing to the conditions previously mentioned.

There was raised on the farm this season 24 acres of oats which yielded 1,287 bushels, or 53 5-8 bushels per acre.

BARLEY—The experiments with barley were confined to a test of four varieties which with the varieties of oats remain to be threshed when a full report of the results will be made. There was also raised a field of 15 acres of barley yielding 575 bushels, or 38 1-3 bushels per acre.

PEAS AND PEAS AND OATS—Two acres of peas were sown in order to obtain the grain for feeding experiments during the winter, and two more sown broadcast and plowed under three inches deep, divided into equal plots,

and oats drilled in two inches deep in different proportions, the object being to ascertain the most profitable proportion for a feeding ration. The results show that when over one-half bushel of oats per acre was sown with two bushels of peas, the peas were smothered out.

VETCHES—An acre of vetches was sown and cut and cured for hay for the purposes of testing it as a fodder for sheep. One-half acre was sown at the rate of three bushels per acre and the other half acre at the rate of two bushels of seed per acre. The results show that in a wet season at least, two bushels is better than three.

MILLET—Two acres of millet yielding 7,560 pounds were raised and stored in the barn to be used in a feeding experiment against oat hay during the coming winter.

POTATOES—One and one-half acres of potatoes were planted in furrows forty-two inches apart and plowed under fifteen inches apart in the furrow. One-fourth of an acre was drowned out by June frost and the balance of the field yielded 190 bushels.

RAPE—As there has been considerable controversy over rape as a cheap food for fattening lambs, one-half acre was drilled with a Mathew's seed drill in drills 18 inches apart at the rate of two pounds per acre, and one-half acre broadcast and covered with a Breed's Weeder, at the rate of five pounds per acre. The half acre that was drilled was hoed once and was far ahead of that sown broadcast, growing five or six inches higher and so thick that one could hardly walk through it. To test its efficiency for fattening sheep, twenty lambs were purchased and turned into the field of rape, Sept. 21st. The weight of the lambs at the time was 1,170 pounds. They were left in the field till Oct. 27, when they weighed 1,285 pounds. While one test is not enough to determine the value of rape, the result of this one goes to show that its chief value is in producing a cheap growing ration when pasture is short.

FLAX—Experiments are now under way to aid in determining the quantity of seed that should be sown per acre to produce the best fibre; and also some variety tests. One acre of land has been devoted to this purpose during the past year.

SUGAR BEETS—Two acres of land have been devoted to raising sugar beets, on which was raised 36,910 pounds of beets, 10,570 pounds of which are to be used for feed and 26,340 pounds have been shipped to Norfolk, Neb., to be worked into sugar. There was also raised 14,880 pounds of mangel wurzels to be used as feed.

CORN—A field of thirty-eight acres of corn was planted, five acres of which were cut up into ensilage and three acres drowned out. The corn on the remaining thirty acres has been husked and cribbed and amounts to 1,200 bushels by weight with thirty tons of fodder, all of which is still on hand.

A part of the field was used to test the value of ensilage as compared with dry fodder and the feeding experiment in furtherance of this test will be soon put under way. A test of the merits of corn drilled in very thick, over check rowed corn, both for ensilage and dry fodder is also to be finished as soon as the animals can be had to perform the feeding experiment. Eighteen varieties of corn have also been tried and the report will be ready in a few days.

The above report covers all crops raised on the farm except hay, of which there was raised thirty and three-fourths tons of timothy and thirty-eight and one-fourth tons of clover; and all experiments undertaken since Dec. 1st, 1891, excepting the ones with live stock, of which there has been one with sheep, seven with hogs and three with cattle, the reports of which are already in your possession.

CLINTON D. SMITH,

Agriculturist.

DAIRY DIVISION.

ST. ANTHONY PARK, Minn., Dec. 1, 1892.

CLINTON D. SMITH, *Director Minnesota Experiment Station*: In compliance with your directions I submit an outline of work done since the first day of October, 1891. The first half of the month was spent in selecting and shipping to the station a number of dairy cows to be used in connection with the experiment station and dairy school. As these cows were to represent distinctive types and be used for specific purposes, great care was taken in their selection. The cows purchased by me were Tricksey and Champion Sweetbrier 3rd, two registered Guernseys; Pride of Evergreen, a registered Jersey, and Marie, Pottie, Gertie and Beckley, four high grade Jerseys, also Houston a cross-bred Jersey-Guernsey; Rossie, a half-blood Jersey, and the yearling bull, Silver Pogis, registered Jersey. These with others bought within the State constitute the station dairy herd.

For purposes of experimentation and for use as object lessons in the class room, it is desirable to have the animals models of their kind; these must be of a type that will not lay on flesh under high feeding, but respond freely in milk and butter fat. The typical dairy cow is a machine for converting feed stuffs into dairy products, and one that will fail to do this or does not convert all food over and above that needed for the support of the body, into milk, is not the kind of beast needed for our purpose. The degree of success which has attended our efforts in making our selections will appear in the tables of live weights, yield of milk and per cent. of fat. Much of the work done has necessarily been of a preliminary character. On the first of December, 1891, a regular daily record of the herd was begun, each cow's milk is weighed and tested by the Babcock test for per cent. of fat thus affording an opportunity to note the variations in quantity and quality of milk of every cow and to study into the causes which produced them, and also to observe the conformation of the cows, to ascertain which is best suited for dairy purposes.

This line of work has been pursued during the year with great care and with gratifying results. As it would take too much labor to churn the cream of each cow separately to find her butter product, an experiment was made to ascertain the accuracy of the Babcock test in measuring the butter value of milk. For this purpose eight cows were selected, representing four different breeds, each cow's milk was weighed and tested morning and evening for one week and from this test the butter value was computed. The cream of each cow for the week was churned separately and by adding the total amount of butter fat lost in the skim and

butter milk it was found that the amount recovered by the churn was within 2.3 ounces of the total amount indicated by the test; this small difference could easily be accounted for by the mechanical loss in the making, so that, for all practical purposes, the Babcock test is a correct measure of the butter value of milk. In this experiment it was incidentally shown that the time required to do the several churnings and the churnability of the cream from cows of different breeds, as shown by the per cent of fat left in the butter milk, does not depend upon the breed, but that exhaustive churning is dependent upon the proper ripening and temperature of the cream.

During the winter several problems presented themselves for solution, and after the close of the school year general routine work was resumed in the dairy hall and at the same time some experiments were made in creaming and churning to solve, as far as possible, some of these problems. Numerous complaints were made in the agricultural press of cream not churning, and inquiries made as to the cause and remedy, the answer uniformly being "too many strippers in the herd." The term "strippers" has reference to cows well advanced in the period of lactation. To test the correctness of this theory, the cream from cows in the herd that had been in milk from nine to twelve months, and the cream from comparatively fresh cows was similarly treated. It was found that when the proper acidity was developed in the cream there was no material difference in the time required to do the churning.

There were also numerous complaints that by the gravity process there was great loss of fat in the skim milk; several trials were made with the Cooley process, and it was found that often as high as 25 per cent. of the fat was left in the skim milk, and upon further investigation it was ascertained that the milk from strippers was the cause of the heavy loss. Several methods were tried, and it was found that by churning this milk at a high temperature—70 degrees—satisfactory results were obtained.

There are so many conditions which prevent exhaustive churning that at times it is very difficult to discover the cause in cases reported, and in order to study this question more carefully numerous churnings were made with cream under varying conditions, the range of loss being from one-tenth of one per cent. to two and eight-tenths per cent., and in every instance of heavy loss it could have been prevented by observing a few simple rules which will be formulated in a forthcoming bulletin on this subject.

The station herd of dairy cows which is kept for purposes of experimentation in milk and feed stuffs numbered twenty-nine head; of these four have been sold and two have died, leaving twenty-three now in the herd. Three are full registered Guernseys; two are cross-bred Jersey-Guernseys; three are registered Jerseys; one registered Holstein; two grade Holsteins; eight grade Jerseys; two grade Shorthorns and two grade Guernseys. The four sold were Frank, Gran, Lucy and Ray; their performance as dairy cows was not such as would warrant their being retained in the herd, as will appear in the tabulated statement of yield of milk and per cent. of fat. The two that died, Marie and Pottie, were high grade Jerseys of great merit. Nearly all of the cows remaining in the dairy herd are of approved type and do excellent service as dairy animals, yet of these, two or three could be dispensed with, and would leave a herd which would do credit to the school and station.

As the record of the station dairy herd for the year did not close until the first of December, and since it will require about fifteen thousand computations to ascertain the total yield of milk and fat during the year, it will be impossible to furnish the tables in time for this report. They will be the subject of a bulletin to be published at an early day.

All of which is respectfully submitted.

T. L. HAECKER.

HORTICULTURAL DIVISION OF THE EXPERIMENT STATION.

ST. ANTHONY PARK, Minn., Nov. 30, 1892.

PROF. CLINTON D. SMITH, *Director Experiment Station*. Sir: I have the honor to herewith submit the report of the work in the horticultural division, for the biennial period ending Dec. 1st, 1892.

Yours respectfully,

SAMUEL B. GREEN,

Horticulturist.

HORTICULTURAL DIVISION.

Since taking charge of the work of this division it has been my object to keep the work in touch with the thought and work of the most progressive horticulturists, and so far as possible to aid in advancing a helpful, general knowledge of horticulture among the citizens of the State. The one fact that impressed itself most clearly on my mind while attending to my duties is that there are far greater possibilities for horticulture in this State than are generally supposed, and that many of the failures which have attended horticultural efforts heretofore, are due to the blindly following out of methods that, however well they may make for success elsewhere, can not obtain in successful horticulture here. In a report of this nature I can no more than outline in the briefest possible way the most important work undertaken by this division. An important part of my work has been the attention given to the answering of questions on various matters connected with horticulture and forestry, which I have received directly or through the agricultural publications of the State. This work has largely increased since my last report and now requires a considerable part of my time.

PUBLICATIONS.

The publications of this division of the time covered by this report are as follows: Bulletin No. 18, issued in September, 1891, consists of twenty-four pages devoted to a report on small fruits; the raising of coniferous evergreens, seedlings and on the summer propagation of plants. Bulletin No. 24, issued in October, 1892, consists of sixty-four pages and is a report on the behavior of the ornamental and timber trees, shrubs and herbaceous plants offered by the most progressive nurserymen, that have been tried in this State. This bulletin contains a table of hardiness, in which the different plants mentioned are, so far as possible, criticised by reliable observers in various parts of the State. It is designed especially as a guide to planters in this State, and furnishes a satisfactory answer to

the many requests this division has received for information of this character. Bulletin No. 25, issued in December, 1892, consists of a report on varieties of strawberries, raspberries, blackberries, dewberries and grapes, fruited at the station the past year; a report on the preliminary experiment in shading strawberry plants to increase their fruitfulness; on renewing old strawberry beds and on the details of a very successful experiment in spraying of grape vines to prevent downy mildew.

SCHOOL GROUNDS.

The laying out and planting of the grounds about the Farm School has required considerable attention. Since my last report the ground about the laboratory building has been graded and several new drives put in where needed. The main entrance to the Station has been improved by seeding down the boulevards and the appearance of the whole of the grounds greatly improved by the planting out of trees and shrubs along the borders of the drives and about the buildings in accordance with the plan suggested in my last annual report. There have been planted on the school grounds in the past two years 109 deciduous trees, mostly white elm and white maple; 360 coniferous evergreens, embracing seventeen species and varieties; and 170 shrubs and vines, embracing forty-six species and varieties. The typical specimens of these species should be plainly marked with their botanical, scientific and common names, and so treated will add much to the value of the grounds for purposes of instruction and pleasure.

APPLES.

Much interest is manifest throughout the State in the growing of apples. This is largely due to the very general planting of the hardiest, and exercising better care than formerly in their culture, which has resulted in the very heavy crops the past few years. The crop in 1892 was so large that many car loads were shipped out of the State and some growers sold as many as one thousand barrels of number one apples. There can be no doubt in the minds of careful observers but that there is a large amount of land in this State that can be far more profitably devoted to the growing of this fruit than to any other crop.

The experiment orchards at the station are in excellent condition and produced a small amount of very excellent fruit the past season for the first time, but they are not yet old enough to warrant me in drawing conclusions from the results. The number of varieties on trial has been increased by the addition of promising seedlings and Russian, Swedish and North German apples, until now we have about 300 varieties. It is my object to thin out this large list and reduce it to reasonable proportions as soon as may be. As fast as a variety exhibits any serious weakness it is discarded.

The varieties that are doing best aside from the Duchess, which is well and favorably known, are: Lieby, Anissein, Buskovka, Borovinka, Charlomoff and Red Wine.

NEW ORCHARD.

In the fall of 1890 about one acre of woodland on the north slope of the hill at the experiment station was grubbed out and planted to a variety of fruit trees as follows: 16 varieties of Russian cherries; 2 varieties of peaches; 4 varieties of plums; 1 variety of Russian apricot and 139 varie-

ties of apples, in all 360 trees. The advantages of this orchard lie in the northern slope and high altitude. It supplies us with what has been long needed by furnishing us with a favorable trial ground for varieties that only do their best on elevated land.

TOP WORKING APPLES.

The subject of top working somewhat tender varieties of apples on hardy stocks is one that is exciting among orchardists, in this State, much interest, and some results already achieved in this line seem to indicate that by this plan varieties of no greater hardiness than the Wealthy may be grown much farther north than at present seems practicable. One of the best stocks for top working is the Virginia crab, and last spring I planted fifty of them for this purpose. In my report last year I referred to the importance of experimenting with seedlings from one of the best varieties of apples. I have grown the season just past 900 plants from seed of the most hardy desirable known varieties of apples. While this is a promising field for experiment yet with these seedlings we know only the maternal parent and of course the work is made more a matter of chance than it would be did we know both parents. With the object of doing better work, I last spring made hand crosses of the following hardy kinds of apples with the Lieby, using the latter as the mother plant; Duchess of Oldenburgh, Christmas, Good Peasant, Borovinka and Charlamoff. This work may be compared to the systematic, intelligent breeding of domestic animals, and from these crossed seeds I expect much better results than from ordinary seedlings.

SMALL FRUIT.

In bulletins numbered 18 and 24 I have made an extended report of the behavior of the small fruits, so that any farther mention of them would be unnecessary and out of place here, except to add in a general way that among the newer strawberries and grapes especially, there are several varieties that are undoubtedly an improvement on the old kinds. There is much interest taken in this subject by our fruit growers, and the reports bearing on it are widely sought after.

PLUMS.

The outlook for improvement in this fruit is very encouraging. We have now forty-seven named varieties on trial, and are making a specialty of raising seedlings from the best kinds and have now over four thousand plums from which we expect to select at least two hundred promising plants for fruiting. We have fruited seven varieties. The large trees in the orchard have borne regularly very heavy crops of fruit until this year when they blossomed profusely, but the pollen was washed away by heavy rains and the crop was a total failure.

FORESTRY.

In my last biennial report I referred to the planting out of two and one-half acres to forest trees. This plantation has been extended and now embraces about three acres. It is laid out in rows eight rods long and set with the following economic plants: European larch, white ash, black ash, green ash, box elder, wild black cherry, yellow birch, European white birch, canoe birch, American bass wood, European bass wood, five kinds

of timber willow, six kinds of timber poplar, catalpa, butternut, black walnut, soft maple, hard maple, hemlock, red cedar, red pine, Norway spruce, black spruce, Douglas spruce and white cedar. The special value of this plantation is for an object lesson to our students and others in forestry, for which its value is an increasing one. It will also furnish valuable data as to the comparative hardiness, rapidity and habits of growth, and the value for different purposes of newly introduced forest trees.

CONIFEROUS EVERGREENS FROM SEED.

The introduction of coniferous evergreens on our wind-swept prairies is a matter of much interest and importance. I have carried on experiments the past three years in raising seedlings of these trees, and some of the results obtained are of much interest and are reported on at length in bulletin No. 18. These results seem to show the great value of a few simple precautions which, if followed, will enable any careful man to raise these plants successfully.

ROCKY MOUNTAIN EVERGREENS.

After a careful study of these very beautiful and useful evergreens I have commenced raising the following kinds from seed obtained from high altitudes on the eastern slopes of the Rocky Mountains:

Heavy wooded or bull pine (*Pinus ponderosa*); Colorado blue spruce, (*Picea pungens*); Engleman's spruce (*Picea Englemanii*); (*Abies concolor*); Douglas spruce (*Pseudotsuga taxifolia*) and mountain balsam (*Abies sub-Alpina*).

Experiments of minor importance which have been completed or in progress are:

Variety tests with 21 kinds of tomatoes; variety tests with 50 kinds of potatoes; variety tests with 26 kinds of sweet corn; variety tests with 20 kinds of garden peas; experiments in grafting grapes; experiments to demonstrate the effect, if any, of electricity on plant growth when applied to the soil; experiments in shading of strawberry beds to increase the certainty and amount of the crop; experiments with raising sand cherries from seed with the object of producing improved fruit; (In conducting this work over 4,000 seedlings have been raised and I consider the work of great promise), experiments with raspberry, strawberry, grape and gooseberry seedlings, the object being to produce kinds of these fruits that are better adapted to our condition than any we now have. (In conducting this work over 500 seedlings have been raised.)

I have been called upon during the past year to investigate the work of the downy mildew in vineyards around lake Minnetonka, where the treatment I have recommended has given nearly entire immunity from the disease and this at a cost sufficiently small to permit of its being used on a large scale. By request an investigation has also been made into the adaptability for cranberry raising of some large marshes in Otter Tail county.

SAMUEL B. GREEN,
Horticulturist.

CHEMICAL DIVISION.

ST. ANTHONY PARK, Minn., Dec. 1, 1892.

CLINTON D. SMITH, *Director Experiment Station, University of Minnesota*:
The work of the chemical division for the period, December 1, 1890, to December 1, 1892, has been of the following nature:

I. WHEAT.

1. A test of varieties, both foreign and native. 2. Co-operative test with selected seed wheat. 3. Comparative milling and baking tests. 4. The composition of different grades of wheat and the milled products. 5. The composition of the wheat plant in the different stages of its growth. Topics one, two and three have been published in bulletins number 15 and 23 and are the result of the wheat work conducted by Professor Harper. Topics three and four are at present under investigation. The testing of the varieties of wheat has been carried on by the agricultural division during the past year, inasmuch as this work is more agricultural in nature than chemical. The analyses of the milled products (unpublished) show that the wheat germ is a very valuable food product and is richer in nitrogenous compounds than the wheat itself or any of the other products. The good results from selected seed wheat are clearly shown in bulletin No. 23.

II. SUGAR BEETS AND SORGHUM.

During the year 1891 extensive investigations were carried on with sugar beets and the results are published in bulletin No. 21. In all about 400 analyses were made of sugar beets grown in different parts of the State. The analyses were made by Mr. Thompson, assistant in the laboratory. The results show that sugar beets of a high per cent. of sugar and purity can be raised in nearly every part of the State.

In the spring of 1892 about one hundred samples of seed were sent out in order to continue the work of the previous year, and obtain results from another season. For the past three years these investigations have been carried on and the sugar beet has been subjected to the most extreme tests as to climate, section and season. The question is now a financial one. The station has shown that beets with as high a percentage of sugar and purity can be raised in this State as in any State in the Union. Chemical analyses and a laboratory experiment can do nothing further to decide this question. Over two hundred analyses of sugar beets have been made during the present year.

SORGHUM. In bulletin 21 the work that has been done by the station with sorghum is recorded. During the past year this work has been continued, particular attention being paid to the selection of seed from early ripening and thrifty heads. The results of this year's work with beets and sorghum have been completed and await publication.

III. DIGESTION EXPERIMENTS.

A bulletin on the digestibility of some of the typical grains of the State has been submitted. The results show in general what becomes of the food that is fed to pigs and milch cows and the amount required to supply the body with fuel for heat and other general mechanical purposes. In the case of milch cows the amount of food that is returned in the milk is determined. In all of these experiments analyses are made of the food

consumed by the animal as well as the dung, urine and milk. The results also show what becomes of the valuable fertilizer materials that are in the food eaten. A series of digestion experiments is the most laborious work that can be carried on in the laboratory.

In the case of pigs the results show that all of the gains in flesh come from the small amount of food eaten that is in excess of what is required for the mechanical purposes of running the machinery of the body and hence it is economical to feed well.

IV. MILK.

MILK—Complete analyses have been made of individual cow's milks. From January 8th to November 15th of the present year, Mr. John Thompson, assistant in the laboratory, determined the per cent. of fat in both the morning's and evening's milk from each individual cow of the whole herd; quite frequently this work involved more than fifty determinations of fat in one day.

BUTTER—The composition of butter made from individual cow's milk, from sweet cream, sour cream, and the cream from various centrifugal machines, including the extractor product, has been studied mainly during the session of the dairy school in the winter of 1892.

CHEESE—The losses of fat in cheese making were reported in bulletin No. 19 and the results show that milks rich in fat can be made into cheese with no greater loss of fat in the whey than with poorer milks. Analyses have been made of cheese at different stages of their ripening. The relation between the composition of milk and the cheese produced, the development of acid in cheese making, and the digestibility of skim cheese, full cream and cream cheese determined. This work has been done during the present year and awaits publication.

MISCELLANEOUS WORK.

In addition to the work already reported various other lines of work have been carried on. A collection has been made of some of the typical soils of the State, analyses made of the soils of the farm, of fodders used in various feeding experiments, and of samples of milk and of water sent by the farmers of the State to us.

The generous policy of the Board of Regents in the equipment of the new station laboratory with modern and improved apparatus, including power and special rooms for various investigations, has made it possible to accomplish much more than otherwise could have been done. For the special lines of the agricultural work of the State, the chemical laboratory of the Station is well provided.

Very respectfully submitted,

HARRY SNYDER, Chemist.

DIVISION OF ENTOMOLOGY.

At the request of many farmers interested in sheep husbandry, bulletin No. 16 was prepared and issued in April, 1891. It contains an illustrated description of the common scab of sheep. The publication of this bulletin became necessary because sheep husbandry was at that time, and is even now, a new enterprise to most of our farmers, and notwith-

standing the fact that large portions of our State are exceedingly well adapted to it, but little real progress was made. This was mainly owing to the fact that too many animals were kept by individuals who were unable to give them the care so important to success, and also because animals infested with the scab were introduced from other States. No great pains were taken to prevent, by a very careful investigation of the animals, the introduction of this disease. As the scab is easily communicated from animal to animal, the disease once introduced spreads rapidly; moreover, not having a clear understanding of the case, some farmers permitted their healthy sheep to graze with infested ones, and great losses had to follow.

Though the cause of this disease is not a true insect, a mite, in a practical sense the difference is but slight, the bulletin was prepared by the entomologist and not by the veterinarian. The bulletin gives an illustrated description of the scab mites, describes their life history, their method of attacking animals, and gives the different methods employed to destroy them. A large number of remedies were given which had proven successful and that are more or less inexpensive. Kerosene emulsion was only mentioned as a very promising and cheap remedy. Since that time many experiments have been made, both in Minnesota and elsewhere, and it is now a prominent fact that kerosene emulsion is by far the best, safest, cheapest and quickest remedy known against skin insects and scab mites. It has none of the disadvantages of other dips, does not discolor the wool, and presents, moreover, a humane way of treating a diseased domesticated animal. Other skin diseases caused by parasitic insects are equally well and quickly cured by an application of this cheap insecticide. One application to the skin of cattle belonging to the experiment station, which were infested with such external parasites, proved enough to rid the animals from such vermin.

In bulletin No. 17, issued August, 1891, a full account was given of a new invasion of migratory locusts in the Red River valley and adjoining regions. Swarms of these insects were seen on August 4, 1890, passing over Crookston, flying in a southeasterly direction. The gravid females dropped to the ground wherever conditions were favorable and deposited large numbers of eggs. Later inquiries proved that these insects had migrated from the mountainous parts of Manitoba; they had been seen by many eye witnesses crossing the boundary line near Pembina, N. D., and elsewhere. In the last biennial report, page 17, attention was directed to the danger of another locust trouble. The deductions from the observed facts proved only too true, as early in June, 1891, a number of newspapers published complaints that locusts were doing considerable damage in many fields. The infested region included many parts of Polk, Marshall, Kittson and Hubbard counties. At the request of His Excellency, Governor Merriam, and with the permission of the Board of Regents, the entomologist made a number of trips to the infested region, and advised the county commissioners in regard to remedies. These officers were also instructed by the governor to exert all possible energy to fight and reduce the common enemy, and to spend all the necessary funds for this purpose. In the worst infested regions in Polk county, Mr. Kirsh, of Crookston, waged war in a very telling way. But generally speaking less work was done in most parts of the infested region than ought to have been done.

As shown in bulletin No. 17, three distinct species of migratory locusts invaded the Red River valley. Besides the "larger and lesser migratory locusts" farmers had to deal with the "pellucid locust," an insect not observed before in Minnesota.

The bulletin gave in a condensed form descriptions and illustrations of the three species; described the manner in which eggs are deposited; the best method to destroy the enemy, and expressed the fear that the year 1892 would see an alarming increase in the number of locusts, provided natural remedies did not come to our assistance. Owing to the very wet autumn of 1891 and the still wetter spring of 1892, the bulk of the locusts in the Red River valley have been destroyed.

The entomologist would like to be permitted to again call attention to the fact that the State of Minnesota needs some laws to protect the educated farmers against injurious insects raised by the uneducated ones. Locusts and some other injurious insects should be classed with certain contagious diseases, like the small-pox for instance, and similar laws ought to be framed to suppress these insects as such diseases.

While investigating locusts in the suspected localities the attention of the entomologist was directed to the study of a very destructive insect that had found a home in some portions the Red River valley and had caused considerable injury to the crop of wheat, already badly damaged by unfavorable weather and rust. This insect is called the frit fly, from the fact that Swedish farmers call the worthless grain resulting from such injury "frits."

To give timely warning to farmers troubled by this insect a "preliminary report upon an insect injurious to wheat" was published in bulletin No. 23. In this bulletin a partial life history of this insect is given, and a simple method to combat the same. As the insect has to be bred to maturity, it is at present impossible to give the scientific name to this fly. Similar flies have spread destruction near and far, both in Europe and North America, and it is wise to prepare in time to meet this foe.

Considerable attention has been paid to the study of insects injurious to trees planted for wind-breaks, to insects injurious to shade trees, the small fruit, vegetables and other plants, the results of which will be published in a future bulletin. It was intended to pay special attention to cut worms, but the copious rains of spring made any effort in this direction useless, as the cut-worms had been so decimated that but very little injury was caused by them. Yet in some places especially favorable to cut-worms considerable injury was caused. A number of experiments were carried out in these localities, mainly against a cut-worm, very destructive to onions.

Considerable attention was paid to the forest tent-caterpillar which again denuded many fine trees in the vicinity of our lakes. Besides forest trees and shade trees some of the small fruit suffered greatly. At the time of their appearance a number of illustrated articles were prepared by the entomologist. They were published in a number of daily, weekly and agricultural papers.

The last autumn was a very peculiar one on account of the long continued wet weather. This condition caused a number of insects to attempt to produce an additional brood. In most cases this attempt was a failure, but of considerable interest and, moreover, of some value to us. For instance, the last brood of Colorado potato beetles instead of

remaining as usual in the ground were misled by the warm weather and left their wintering quarters. They fled about in vain to find food ; only in cases where the potato tubers were left above the ground they succeeded in causing some injury by disfiguring them. But the great majority have perished on account of their mistake in the seasons, and thus potato growers start next spring with only a few of these enemies instead of a large number of them.

During the last two years some time was devoted to bring together a collection of Minnesota insects, both of the injurious and of the beneficial kinds. A collection accessible to all those suffering from losses by the multitude of insects found in our State is a necessity, as remedies can only be recommended with any degree of certainty if the depredators are known and identified. Of course it will take many years to make such a collection fairly complete.

The entomologist was invited to prepare for the Columbian Exhibition as complete a collection of Minnesota insects as it was possible to make. Two large cabinets each with twenty-six drawers have been partly filled and when finished will be exhibited with the state collection in Chicago.

The correspondence with farmers in regard to injurious insects is gradually increasing, and requires a great amount of time, as it is not always best to advise without studying the question most thoroughly. The local newspapers have been of great assistance in securing information about any insect and the proper remedies against it.

The Great Northern, Northern Pacific and the St. Paul, Minneapolis & Omaha railroads have always gladly furnished free transportation to the Entomologist, and deserve thanks, as without their liberality it would have been impossible to visit infested regions as soon as an occasion arose.

Respectfully yours,

OTTO LUGGER, Entomologist.

BOTANY.

During the past two summers the formation of an herbarium, chiefly composed of such plants, as are either beneficial or injurious to the farmer, was the principal work of the botanist. A very good collection of the wild and cultivated grasses and forage plants of Minnesota has been brought together. The most common and injurious weeds are also well represented. Both groups of plants have been collected and preserved in sufficiently large numbers to furnish students of the Agricultural School material for study and dissection. To familiarize the students with the appearance of our native grasses, a majority of them (about 120 species) have been framed and are arranged in the general assembly room where they can always be studied. The remaining species of grasses not yet represented in this collection will be added to it during this winter. Each specimen is labelled both with its common English names and its scientific one. Early in the spring of 1892 the work of growing different species of grasses and forage plants in plots was put in charge of the botanist. The most suitable space for this purpose and the one most accessible to students and visitors seemed to be the little valley beyond the chemical laboratory and consequently one half of it was devoted to this purpose. Owing to the very backward season, and to the large amount of rain, operations could not be commenced as early as would have been best.

About 200 species of grasses and fifty species of other forage plants such as clover, vetches, spurry and others were added, and the majority grew well. It would have been impossible to obtain so many different kinds of seed in time, if Professor T. M. Tracy, of the Mississippi Experiment Station had not kindly donated to the botanist a large amount of valuable seed. Many grasses were from foreign countries, and proved so very promising that, after another season, they may be found of sufficient value to warrant a trial upon a larger scale. These plots are chiefly intended for instruction, not alone to the students of the Agricultural School and College, but also to the numerous visitors that come to the station. Arrangements have been made so that in another year the number of these plots will be largely increased. Of primary importance is a growing collection of all our native grasses, and of a barely secondary one is the trial with foreign species. For this purpose large numbers of seed of our native grasses were collected by the botanist during the past summer. Other plants of the native species have been marked in their native homes and will be transplanted at the proper time.

Considerable correspondence has been had with the botanists in foreign countries, and some of them have promised to aid by sending seeds. Thus many grasses from Norway, Sweden, Germany, Russia, France, South America, Australia and other countries will be received and propagated. If of no value to Minnesota they will be discarded. If promising they will be handed over to the agriculturist for future trial upon a larger scale. At the same time the chemist of the station will ascertain the food value of all the species, so that promising grasses without real value for fodder, can be discarded.

Of all the species of grasses and of other forage plants a large set of specimens has been pressed, so as to be of use in the class room. There can be no doubt that these plot experiments will be of great value, not simply for scientific purposes, but for practical ones as well.

Experience gained last summer has shown that the space selected for this purpose is not the best that might have been chosen, and it will, perhaps, be best to utilize another part of the farm for this purpose. Considerable trouble was caused by different kinds of rusts, mainly due to the poor ventilation in the valley, but as similar diseases were prevailing elsewhere, the choice of locality alone was not wholly to blame.

As the State will have at the Columbian Exhibition a display of its agricultural resources, the authorities in charge of these matters requested the botanist to prepare for this purpose as full a collection as possible. With the permission of the Board of Regents this work has been performed. As a result over 200 species of grasses and forage plants, nicely framed, have been prepared. Also over 300 large bundles of grasses, showing the average size and the appearance of these important plants as found in Minnesota.

Besides the above collection another one was prepared on behalf of the exhibit, showing the work of the station botanists at the Columbian Exhibition. This collection consists of 150 species of native and cultivated grasses. It will be exhibited with others in a special building devoted to agricultural experiment stations.

Yours very respectfully,

OTTO LUGGER.

ST. ANTHONY PARK, Minn., Dec. 1, 1892.

DIRECTOR CLINTON D. SMITH, *Experiment Station*. DEAR SIR:--Below I submit to you a statement of the receipts and expenditures at the Experiment Station, exclusive of salaries paid to officers, as shown on my books for the year beginning December 1st, 1891, and ending November 30th, 1892, inclusive:

	Receipts.	Expenditures.
Agriculture.....	\$1,521.76	\$4,623.44
Horticulture	572.48	2,102.48
Chemistry.....	28.84	1,390.77
Entomology.....		404.59
Station.....	62.00	4,784.71
Dairy.....	2,552.74	3,655.64
	<hr/>	<hr/>
	\$4,737.82	\$16,961.63

There is in addition to the above a charge of \$10,495.32 against the dairy department, which was expended for building and apparatus.

Respectfully yours,

J. A. VYE, Accountant.

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NINTH BIENNIAL REPORT

[No. 20 IN SERIES.]

OF

THE BOARD OF REGENTS

OF THE

UNIVERSITY OF MINNESOTA

TO THE GOVERNOR,

FOR THE

FISCAL YEARS 1895 AND 1896 ENDING JULY 31ST.

*Transmitted to the Legislature at the Thirtieth
(Ninth Biennial) Session, 1897.*

ST. PAUL. MINN.
THE PIONEER PRESS COMPANY.
STATE PRINTERS.
1897.

NINTH BIENNIAL REPORT

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ADMINISTRATIVE OFFICERS.

BOARD OF REGENTS.

	Term Expires
The HON. JOHN S. PILLSBURY, Minneapolis - -	Regent for Life
The HON. DAVID M. CLOUGH, Minneapolis - - - -	Ex-Officio
The Governor of the State.	
CYRUS NORTHROP, LL. D., Minneapolis - - - -	Ex-Officio
The President of the University.	
The HON. W. W. PENDERGAST, M. A., Hutchinson - -	Ex-Officio
The State Superintendent of Public Instruction.	
The HON L. S. SWENSON, Albert Lea - - - -	1897
The HON. WILLIAM M. LIGGETT, Benson - - - -	1897
The HON. JOEL P. HEATWOLE, Northfield - - - -	1897
The HON. GREENLEAF CLARK, M. A., St. Paul - -	1898
The HON. CUSHMAN K. DAVIS, M. A., St. Paul - -	1898
The HON. STEPHEN MAHONEY, B. A., Minneapolis - -	1901
The HON. SYDNEY M. OWEN, Minneapolis - - - -	1901
The HON. ALPHONSO BARTO, St. Cloud - - - -	1902
*_____ - - - -	1902

*Vacant.

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The HON. DAVID L. KIEHLE, - - - -	Recording Secretary
PRESIDENT CYRUS NORTHROP, - - - -	Corresponding Secretary
JOSEPH E. WARE (Address care St. Anthony Falls Bank) -	Treasurer

STANDING COMMITTEES.

EXECUTIVE—Regents Pillsbury, Northrop and Liggett.
AGRICULTURE—Regents Liggett, Owen, Pillsbury and Pendergast.
COURSE OF STUDY—Regents Northrop, Heatwole and Pendergast.
LIBRARY—Regents Clark and Pendergast.
LAW DEPARTMENT—Regents Clark and Davis.
MEDICAL DEPARTMENT—Regents Mahoney and Heatwole.
AUDITING ACCOUNTS—Regents Owen and Pendergast.
SALARIES—Regents Mahoney and Clark.
LEGISLATIVE—Regents Heatwole and Owen.

EXECUTIVE OFFICERS.

CYRUS NORTHROP, LL. D., President.
CHRISTOPHER W. HALL, M A., Dean of the College of Engineering, Metallurgy and the Mechanic Arts; Assistant Curator of the Museum.
WILLIAM S. PATTEE, LL. D., Dean of the Department of Law.
PERRY H. MILLARD, M. D., Dean of the College of Medicine and Surgery.
ALONZO P. WILLIAMSON, M. D., Dean of the College of Homeopathic Medicine and Surgery.
WILLIAM M. LIGGETT, Dean of the Agricultural Department, and Director of the Experiment Station.

THE UNIVERSITY OF MINNESOTA,
OFFICE OF THE BOARD OF REGENTS,
December 23, 1896.

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To His Excellency David M. Clough, Governor of Minnesota,

Sir: In accordance with the law, I have the honor to present herewith the ninth biennial report of the Board of Regents of the University of Minnesota, for the fiscal years of 1895 and 1896 ending July 31st.

Very respectfully, your obedient servant,

JOHN S. PILLSBURY,
President.

REPORT OF BOARD OF REGENTS

OF THE

UNIVERSITY OF MINNESOTA.

To His Excellency David M. Clough, Governor of Minnesota:

We have the pleasure to report that the University of Minnesota has, since our last report, continued its remarkable growth. It was thought at that time that any marked increase in attendance was not to be expected within the next two years. In this opinion the state has been agreeably disappointed, although her accommodations and appropriations have been overtaxed to suitably provide for the wants of those who have availed themselves of the state's liberalities. Instead of 2,000 students then in attendance, we now have 2,600. This increase has crowded the classrooms, overworked instructors and necessitated additional expenditures in many ways for their comfort and instruction.

The greatest need of the University, as will be seen from this report, is not so much at the present time for additional and more extensive buildings, except in the department of chemistry and mechanical arts, as it is that those we now already have should be properly fitted up with the apparatus which is absolutely necessary for the various departments. The desire of our youth for a liberal education should be fostered by the state. An educated and enlightened people is the greatest safeguard of our free institutions; therefore, when the wants of the state's greatest educational institutions are ascertained, they should be liberally provided for.

RECEIPTS AND DISBURSEMENTS.

A detailed statement of the receipts and disbursements of the university for the years 1895 and 1896 is as follows:

RECEIPTS FOR THE FISCAL YEAR ENDING JULY 31, 1895.

From United States government, Hatch bill.....	\$18,750.00
From United States government, Morrill bill.....	21,000.00
Interest on university bonds.....	19,225.00
Interest on land contracts.....	28,131.75
Interest on bank deposits.....	1,905.33
From sale of salt spring lands.....	8,844.41
From students' fees.....	45,840.03
From sale of farm products.....	7,331.62
From miscellaneous sources.....	2,792.92
Appropriations for deficiency.....	60,000.00
Revenue from 3-20 of one mill tax.....	90,800.16
Total receipts	<u>\$304,621.22</u>

RECEIPTS FOR THE FISCAL YEAR ENDING JULY 31, 1896.

From United States government, Hatch bill.....	\$15,000.00
From United States government, Morrill bill.....	22,000.00
Interest on university bonds.....	21,462.00
Interest on land contracts.....	28,000.62
Interest on bank deposits.....	2,375.85
From stumpage	311.59
From students' fees.....	55,314.95
From sales of salt spring lands.....	4,021.52
Sales of farm products.....	11,024.91
From miscellaneous sources.....	1,910.13
Revenue from 3-20 of one-mill tax.....	110,070.97
Total receipts	<u>\$271,494.54</u>

CURRENT EXPENSES OF THE UNIVERSITY OF MINNESOTA.

FOR THE FISCAL YEAR ENDING JULY 31, 1895.

Total paid on account of salaries.....	\$169,543.07
Total paid on account of bills.....	84,574.91
Total	<u>\$254,117.98</u>

FOR THE FISCAL YEAR ENDING JULY 31, 1896.

Total paid on account of salaries.....	\$164,134.63
Total paid on account of bills.....	70,497.51
Total	<u>\$234,632.14</u>

The following is a list of the various faculties, with a statement subjoined of the moneys expended for the maintenance of each department:

THE COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

THE FACULTY.

CYRUS NORTHROP, LL.D., President.
 WILLIAM W. FOLWELL, LL.D., Professor of Political Science.
 JABEZ BROOKS, D. D., Professor of Greek.
 CHARLES N. HEWITT, M. D., Professor of Sanitary Science.
 JOHN G. MOORE, B. A., Professor of German.
 CHRISTOPHER W. HALL, M. A., Professor of Geology and Mineralogy.
 JOHN C. HUTCHINSON, B. A., Associate Professor of Greek.
 JOHN S. CLARK, B. A., Professor of Latin.
 JOHN F. DOWNEY, M. A., C. E., Professor of Mathematics and Astronomy.
 MARIA L. SANFORD, Professor of Rhetoric and Elocution.
 CHARLES W. BENTON, B. A., Professor of French.
 O. J. BREDA, Professor of Scandinavian.
 HENRY F. NACHTRIEB, B. S., Professor of Animal Biology.
 FREDERICK S. JONES, B. A., Professor of Physics.
 CONWAY MACMILLAN, M. A., Professor of Botany.
 FREDERICK J. E. WOODBRIDGE, B. A., Professor of Philosophy.
 HARRY A. LEONHAEUSER, Lieutenant U. S. A., Professor of Military Science.
 WILLIS M. WEST, M. A., Professor of History.
 DAVID L. KIEHLE, LL. D., Professor of Pedagogy.
 GEORGE B. FRANKFORTER, M. A., Ph. D., Professor of Chemistry.
 JAMES RICHARD JEWETT, Ph. D., Weyerhaeuser Professor of Semitic Languages and History.
 MATILDA J. WILKIN, M. L., Assistant Professor of German.
 CHARLES F. SIDENER, B. S., Assistant Professor of Chemistry.
 JOSEPH BROWN PIKE, M. A., Assistant Professor of Latin.
 E. EUGENE McDERMOTT, B. S., Assistant Professor of Rhetoric and Elocution.
 FRANCIS P. LEAVENWORTH, M. A., Assistant Professor of Astronomy and Director of the Observatory.
 CHARLES L. WELLS, Ph. D., Assistant Professor of History.
 D. T. MACDOUGAL, M. S., Assistant Professor of Botany.
 WILLIAM H. KIRCHNER, B. S., Assistant Professor of Drawing.
 SAMUEL G. SMITH, D. D., Lecturer on Sociology.
 FREDERICK KLAEBER, Ph. D., Assistant Professor of English Philology.
 CHARLES F. McCLUMPHA, Assistant Professor of English.
 AMELIA I. BURGESS, Instructor in Freehand Drawing.
 MARIE SCHOEN, Instructor in German.
 EMMA BERTIN, Instructor in French.
 JOHN ZELNY, B. S., Instructor in Physics.
 LOUISE G. KIEHLE, Instructor in Physical Culture.
 CHARLES P. BERKEY, Instructor in Mineralogy.
 HARLOW S. GALE, B. A., Instructor in Psychology.
 CHARLES M. ANDRIST, B. L., Instructor in French and German.
 FRANK M. ANDERSON, B. A., Instructor in History.
 EDWARD E. NICHOLSON, B. S., Instructor in Chemistry.
 EVERHART P. HARDING, M. S., Instructor in Chemistry.
 ALICE YOUNG, Instructor in English.
 ALBERT I. CALAIS, B. es. L., Instructor in French.
 NELLIE M. CROSS, B. L., Instructor in Physical Culture.
 OSCAR W. OESTLUND, M. A., Assistant in Animal Biology.
 OSCAR W. FIRKINS, B. A., Assistant in Rhetoric.
 HANNAH R. SEWALL, M. A., Assistant in Political Science.
 WINNIFRED SCHUREMAN, Assistant in Rhetoric.
 FRANK M. MANSON, M. S., Assistant in Animal Biology.
 ARTHUR L. HELLIWELL, Assistant in Rhetoric.
 WILLIAM F. KUNZE, Assistant in Chemistry.
 PAUL M. GLASOE, Assistant in Chemistry.

UNIVERSITY BOARD OF REGENTS.

SCHOLARS.

Animal Biology—L. E. Griffin. Physics—Anthony Zeleny. Botany—Josephine E. Tilden, B. S. Geology—Arthur H. Elftman, M. S.

THE COLLEGE OF ENGINEERING, METALLURGY AND THE MECHANIC ARTS.

THE FACULTY.

CYRUS NORTHROP, LL.D., President.
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CHARLES W. BENTON, B. A., Professor of French.
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WILLIAM S. PATTEE, LL.D., Lecturer on Contracts and Torts.
AMELIA I. BURGESS, Instructor in Freehand Drawing.
PETER CHRISTIANSON, B. S., B. Min. E., Instructor in Assaying.
JAMES M. TATE, Instructor in Carpentry, Pattern and Foundry Practice.
JAMES H. GILL, M. E., Instructor in Iron Work.
CHARLES P. BERKEY, M. S., Instructor in Mineralogy.
FRANK W. SPRINGER, B. E. E., Instructor in Electrical Engineering.
NELLIE S. TRUFANT, Scholar in Freehand Drawing.
ARTHUR H. ELFTMAN, M. S., Assistant in Geology.
ARTHUR L. ABBOTT, Scholar in Drawing.
C. H. KENDALL, C. E., Scholar in Civil Engineering.

HARRY W. DIXON, Engineer.
JOHN F. CATES, Engineer.
WILLARD W. DAKIN, Instrument Maker.

SPECIAL LECTURERS, 1896-97.

JOHN T. FANNING, C. E. (Consulting Civil Engineer, Minneapolis), Hydraulic Power.
GEORGE T. WILSON, C. E. (Engineer in charge of sewer construction, St. Paul).
F. W. CAPPELEN, C. E. (City Engineer, Minneapolis), Water Supply for Large Cities.

- C. F. LOWETH (Bridge Engineer, St. Paul), The Modern Railway Bridge.
 L. S. Gillette (President Gillette-Herzog Manufacturing Company), The Modern Iron Manufacturing Plant for Engineering Structures.
 A. B. CHOATE (Commissioner to the National Road Parliaments under the auspices of the Agricultural Department of the United States), The Relation of the Engineer to the Road Improvement Question.
 E. E. WOODMAN (Engineer with the C., St. P. M. & O. Ry. Company), Economic Questions Relative to Railway Operation and Maintenance.
 MORGAN BROOKS (President Electrical Engineering Company, Minneapolis), The Economic Limitations of Electric Lighting.
 EDWARD P. BURCH (Electrical Engineer Twin City Rapid Transit Company, Minneapolis), Electric Railway Engineering.
 A. M. ROBERTSON (General Manager Minneapolis General Electric Company), Central Station Management and Operation.
 CHAS. L. PILLSBURY (City Electrical Inspector, Minneapolis), Safety in Electrical Installations.
 WM. H. BURTIS (Burtis & Howard, Electrical Engineers and Contractors, Minneapolis), Electrical Contracting.

THE COLLEGE OF AGRICULTURE.

THE FACULTY.

- CYRUS NORTHROP, LL.D., President.
 SAMUEL B. GREEN, B. S., Professor of Horticulture.
 OTTO LUGGER, Ph. D., Professor of Entomology.
 HENRY W. BREWSTER, Ph. D., Professor of Mathematics.
 HARRY SNYDER, B. S., Professor of Agricultural Chemistry.
 T. L. HAECKER, Professor of Dairy Husbandry.
 M. H. REYNOLDS, M. D., V. M., Professor of Veterinary Medicine and Surgery.
 WILLET M. HAYS, B. Agr., Professor of Agriculture.
 THOMAS SHAW, Professor of Animal Husbandry.

Note.—The instruction not given by the faculty of the college of agriculture is given by the faculty of the college of science, literature and the arts.

THE COLLEGE OF LAW.

THE FACULTY.

- CYRUS NORTHROP, LL.D., President.
 WILLIAM S. PATTEE, LL. D., Dean, Department of Contracts and Equity Jurisprudence.
 CHARLES B. ELLIOTT, LL. D., Dean, Department of Contracts and Equity Jurisprudence (nepin County, Minn.), Department of Corporations and International Law.
 JAMES PAIGE, A. M., LL. M., Department of Domestic Relations, Partnership and Agency.
 EDWIN A. JAGGARD, A. M., LL. B., Department of Torts and Criminal Law.
 A. C. HICKMAN, A. M., LL. B., Department of Pleading and Practice.
 HENRY J. FLETCHER, Esq., Department of Property.

LECTURERS.

GEORGE B. YOUNG, LL. B., St. Paul, Minn. (Ex-Associate Justice of the Supreme Court of Minn.), Conflict of Laws.
 CHARLES A. WILLARD, LL. B., Minneapolis, Minn., Bailments.
 HON. JAMES O. PIERCE, Minneapolis, Minn. (Ex-Judge of the Circuit Court of Memphis, Tenn.), Constitutional Jurisprudence and History.
 HON. C. D. O'BRIEN, St. Paul, Minn., Criminal Procedure.
 CHARLES W. BUNN, LL. B., St. Paul, Minn., Mortgage and Suretyship.
 HON. JOHN DAY SMITH, LL. M., Minneapolis, Minn., American Constitutional Law.
 HON. HIRAM F. STEVENS, St. Paul, Minn., Law of Real Property.
 T. DWIGHT MERWIN, A. B., St. Paul, Minn., Law of Patents.
 FRANCIS B. TIFFANY, LL. B., St. Paul, Minn., Criminal Law.
 HERBERT R. SPENCER, Duluth, Minn., Admiralty Law.
 A. D. KEYES, Faribault, Minn., Minnesota Practice.
 ARTHUR B. WILL, LL. B., Circumstantial Evidence.

 THE COLLEGE OF MEDICINE AND SURGERY.

THE FACULTY.

CYRUS NORTHROP, LL.D., President.
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 THOMAS G. LEE, B. S., M. D., Professor of Histology and Embryology.
 GEORGE A. HENDRICKS, M. S., M. D., Professor of Anatomy.
 RICHARD OLDING BEARD, M. D., Professor of Physiology.
 CHARLES JOHN BELL, A. B., Professor of Chemistry.
 HENRY MARTYN BRACKEN, M. D., L. R. C. S., Edin., Professor of Materia Medica, Therapeutics and Clinical Medicine.
 CHARLES H. HUNTER, A. M., M. D., Professor of the Theory and Practice of Medicine.
 EVERTON J. ABBOTT, A. B., M. D., Associate Professor of Practice and Professor of Clinical Medicine.
 J. W. BELL, M. D., Professor of Physical Diagnosis and Clinical Medicine.
 ALBERT E. SENKLER, M. D., Professor of Clinical Medicine.
 CHARLES A. WHEATON, M. D., Professor of Clinical Surgery.
 FREDERICK A. DUNSMOOR, M. D., Professor of Operative and Clinical Surgery.
 JAMES H. DUNN, M. D., Professor of Genito-Urinary Diseases and Adjunct Professor of Clinical Surgery.
 JAMES E. MOORE, M. D., Professor of Orthopædia and Adjunct Professor of Clinical Surgery.
 PARKS RITCHIE, M. D., Professor of Obstetrics.
 A. B. CATES, A. M., M. D., Clinical Professor of Obstetrics.
 FRANK FAIRCHILD WESBROOK, M. A., M. D., C. M., Professor of Pathology and Bacteriology.
 J. CLARK STEWART, B. S., M. D., Professor of Surgical and Clinical Pathology.
 ALEX J. STONE, M. D., LL.D., Professor of Diseases of Women.
 AMOS W. ABBOTT, M. D., Clinical Professor of Diseases of Women.
 A. McLAREN, A. B., M. D., Clinical Professor of Diseases of Women.
 JOHN F. FULTON, Ph. D., M. D., Professor of Ophthalmology and Otology and of Hygiene.
 FRANK ALLPORT, M. D., Clinical Professor of Ophthalmology and Otology.
 C. EUGENE RIGGS, A. M., M. D., Professor of Nervous and Mental Diseases.
 W. A. JONES, M. D., Clinical Professor of Nervous and Mental Diseases.

CHARLES L. WELLS, A. M., M. D., Professor of Diseases of Children.
 MAX P. VANDERHORCK, M. D., Professor of Diseases of the Skin.
 W. S. LATON, M. D., Professor of Diseases of the Nose and Throat.
 CHARLES L. GREEN, M. D., Instructor in Clinical Medicine and Physical
 Diagnosis.
 H. L. STAPLES, M. D., Instructor in Medical and Pharmaceutical Latin and
 in Clinical Medicine.
 CHARLES ERDMAN, M. D., Demonstrator of Anatomy.

CORPS OF INSTRUCTORS.

ROBERT A. WHEATON, M. D., Clinical Instructor in Surgery.
 HERBERT W. DAVIS, M. D., Clinical Instructor in Obstetrics.
 GEORGE L. COON, M. D., Clinical Instructor in Genito-Urinary Diseases.
 JOHN T. ROGERS, M. D., Clinical Instructor in Diseases of Children.
 ARTHUR J. GILLETTE, M. D., Clinical Instructor in Orthopœdia.
 BURNSIDE FOSTER, M. D., Clinical Instructor in Dermatology.
 GEORGE D. HEAD, B. S., M. D., Instructor in Pathology.
 J. E. SCHADLE, M. D., Clinical Instructor in Diseases of the Nose and
 Throat.
 H. C. CAREL, B. S., Instructor in Chemistry.

DISPENSARY STAFF AND ASSISTANTS.

C. NOGTNAGEL, M. D., Assistant in Clinical Medicine.
 C. A. ERDMAN, M. D., Assistant in Medicine.
 M. W. GLENN, M. D., Assistant in Clinical Medicine.
 A. E. BENJAMIN, M. D., Assistant in Gynecology.
 R. E. CUTTS, B. S., M. D., Assistant in Surgery.
 F. P. WRIGHT, M. D., Assistant in Surgery.
 W. DE LA BARRE, M. D., Assistant in Nose and Throat Diseases.

COLLEGE OF HOMEOPATHIC MEDICINE AND SURGERY.

THE FACULTY.

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 WILLIAM E. LEONARD, A. B., M. D., Professor of Materia Medica and
 Therapeutics.
 GEORGE E. RICKER, A. B., M. D., Professor of Clinical Medicine and
 Physical Diagnosis.
 ROBERT D. MATCHAN, M. D., } Professors of Principles and Practice of
 THOMAS J. GRAY, M. D., } Surgery.
 WARREN S. BRIGGS, B. S., M. D., } Professors of Clinical and Orthopœdic
 MARSHALL P. AUSTIN, M. D., } Surgery.
 B. HARVEY OGDEN, A. M., M. D., Professor of Obstetrics.
 EUGENE L. MANN, A. B., M. D., Professor of Diseases of Nose, Throat and
 Ear.
 FREDERIC M. GIBSON, M. D., O. et A. Chir., Professor of Ophthalmology.
 GEORGE E. CLARK, Ph. B., M. D., Professor of Theory and Practice of
 Medicine.
 GEORGE F. ROBERTS, M. D., } Professors of Diseases of Women.
 EDWARD E. AUSTIN, M. D., }
 HENRY H. LEAVITT, A. M., M. D., Professor of Diseases of Children.

THOMAS J. GRAY, M. D., Professor of History and Methodology of Medicine.

ROBERT R. ROME, M. D., Professor of Clinical Obstetrics.

——— Professor of Skin and Genito-Urinary Diseases.

Instruction in the following branches is received in common with the students of the other colleges in the department of medicine.

GEORGE A. HENDRICKS, M. S., M. D., Professor of Anatomy.

RICHARD O. BEARD, M. D., Professor of Physiology.

CHARLES J. BELL, A. B., Professor of Chemistry.

JOHN F. FULTON, Ph. D., M. D., Professor of Hygiene.

THOMAS G. LEE, B. S., M. D., Professor of Histology and Embryology.

F. F. WESBROOK, M. A., M. D., C. M., Professor of Bacteriology and Pathology.

J. CLARK STEWART, B. S., M. D., Professor of Surgical Pathology.

H. L. STAPLES, M. D., Instructor in Latin.

FRANCIS RAMALEY, B. S., Instructor in Botany.

THE COLLEGE OF DENTISTRY.

THE FACULTY.

CYRUS NORTHROP, LL.D., President.

THOMAS E. WEEKS, D. D. S., Dean and Professor of Operative Dentistry and Dental Anatomy

CHARLES M. BAILEY, D. M. D., Professor of Orthodontia, Metallurgy and Prosthetic Technics.

WILLIAM P. DICKINSON, D. D. S., Professor of Therapeutics and Clinical Professor of Operative Dentistry.

FREDERICK B. KREMER, D. D. S., Professor of Prosthetic Dentistry and Crown and Bridge-Work.

INSTRUCTORS.

GEORGE A. HENDRICKS, M. S., M. D., Professor of Anatomy.

RICHARD O. BEARD, M. D., Professor of Physiology.

CHARLES J. BELL, A. B., Professor of Chemistry.

HENRY M. BRACKEN, M. D., Professor of Materia Medica.

THOMAS G. LEE, A. M., M. D., Professor of Histology and Embryology.

FRANK F. WESBROOK, M. A., M. D., C. A., Professor of Bacteriology and Pathology.

HENRY L. STAPLES, A. M., M. D., Instructor in Medical and Pharmaceutical Latin.

THOMAS B. HARTZELL, D. M. S., M. D., Lecturer on Pathology, Physical Diagnosis and Oral Surgery.

FRANK R. WRIGHT, D. D. S., M. D., Lecturer on Anæsthesia and Chief of Anæsthetic Clinics.

GEORGE S. MONSON, D. M. D., Instructor in Prosthetic Technics and Orthodontia.

MARK O. NELSON, D. M. D., Demonstrator of Prosthetic Dentistry.

OSCAR A. WEISS, D. M. D., Instructor in Operative Technics.

ASSISTANTS IN TECHNICS AND CLINICS.

MARY V. HARTZELL, D. M. D.

W. FRED JEWETT, D. D. S.

NATHAN L. WATSON, D. M. D.

JAMES M. WALLS, D. M. D.

EDWARD HAAS, D. M. D.

FREDERICK E. COBB, D. M. D.

THE COLLEGE OF PHARMACY.

THE FACULTY.

CYRUS NORTHROP, LL.D., President.

FREDERICK J. WULLING, Ph. G., Dean; Professor of the Theory and Practice of Pharmacology and Pharmaceutical Chemistry.

PERRY H. MILLARD, M. D., Professor of Medical Jurisprudence.

HENRY M. BRACKEN, M. D., Professor of Materia Medica.

————— Professor of Pharmacognosy.

CHARLES J. BELL, A. B., Professor of Chemistry (General, Medical and Analytical).

GEORGE B. FRANKFORTER, Ph. D., Professor of Chemistry (Organic).

CHARLES F. SIDENER, B. S., Assistant Professor of Chemistry (Quantitative).

CONWAY McMILLAN, M. A., Professor of Botany.

FRANCIS RAMALEY, M. S., Instructor in Botany and Practical Pharmacognosy.

FRANK F. WESBROOK, M. A., M. D., C. M., Professor of Bacteriology.

GEORGE D. HEAD, B. S., Assistant in Bacteriology.

RICHARD O. BEARD, M. D., Professor of Physiology.

JOHN F. FULTON, Ph. D., M. D., Professor of Hygiene.

H. L. STAPLES, M. D., Instructor in Medical and Pharmaceutical Latin.

————— Instructor in Mineralogy.

B. O. LEUBNER, Phm. D., Quizzmaster and Assistant in Pharmacy.

THE SCHOOL OF AGRICULTURE.

THE FACULTY.

CYRUS NORTHROP, LL.D., President.

HENRY WEBB BREWSTER, Ph. D., Principal, Mathematics.

SAMUEL B. GREEN, B. S., Horticulture, Forestry, Physical Culture.

OTTO LUGGER, Ph. D., Zoology, Entomology.

CHARLES R. ALDRICH, Carpentry, Drawing.

FLORENCE A. BREWSTER, Librarian.

WILLIAM A. ROBERTSON, B. S., Physics, Botany.

J. A. VYE, Penmanship, Accounts, Arithmetic.

HARRY SNYDER, B. S., Chemistry.

T. L. HAECKER, Dairy Husbandry.

M. H. REYNOLDS, M. D., V. M., Physiology, Veterinary Science.

WILLET M. HAYS, B. S. A., Agriculture.

THOMAS SHAW, Animal Industry.

J. M. DREW, Blacksmithing, Poultry.

ANDREW BOSS, Dressing and Curing Meats, Machinery.

WILLIAM BOSS, Carpentry, Engineering.

ALVIN D. GAINES, A. M., Language, History, Civics, Music.

HARRY A. LEONHAEUSER, Lieutenant U. S. A., Military Drill.

THE DAIRY SCHOOL.

THE FACULTY.

CYRUS NORTHROP, LL.D., President.
WILLIAM M. LIGGETT, Dean.
T. L. HAECKER, Professor of Dairy Husbandry, in charge.
Prof. HARRY SNYDER, Dairy Chemistry.
Dr. OTTO LUGGER, Bacteria in Dairy Products.
Prof. W. M. HAYS, Forage and Pastures.
Prof. M. H. REYNOLDS, M. D., V. M., Diseases of the Dairy Cow.
Mr. J. A. VYE, Creamery Records and Accounts.
Mr. WM. ROBERTSON, Care of Boiler and Engine.
Mr. C. R. ALDRICH, Dairy Buildings.
Mr. J. M. DREW, Silo and Stable Conveniences.
Mr. B. D. WHITE, Instructor in Butter Making.
Mr. A. J. GLOVER, Instructor in Cheese Making.
Mr. WM. BOSS, Instructor in Practical Engineering.
Mr. E. W. MAYOR, Instructor in Sweet Curd Cheese Work.
Mr. N. H. FULTON, Assistant in Creamery.
Mr. L. R. HOBART, Assistant in Creamery.
Dr. F. BAUMANN, Instructor in Dairy Laboratory.

CURRENT EXPENSE DISBURSEMENTS, 1894-95.

BY DEPARTMENTS.

General University		\$46,715.64
College Science, Literature and the Arts.....		72,574.17
Military		1,300.97
College Mechanics Arts.....		19,815.91
Geological Survey		10,912.37
College of Law.....		10,395.65
College of Medicine.....		28,813.37
College of Agriculture.....		22,615.42
Experiment Station (general expense).....	\$10,480.85	
Division of Agriculture.....	7,242.08	
Division of Chemistry.....	1,896.77	
Division of Entomology.....	1,082.64	
Division of Horticulture.....	3,554.08	
Division of Animal Husbandry.....	4,474.42	
		28,730.85
Dairy Department	\$10,470.94	
Veterinary Department	1,774.74	
		12,245.68
Total		\$254,119.03

CURRENT EXPENSE DISBURSEMENTS, 1895-96.

BY DEPARTMENTS.

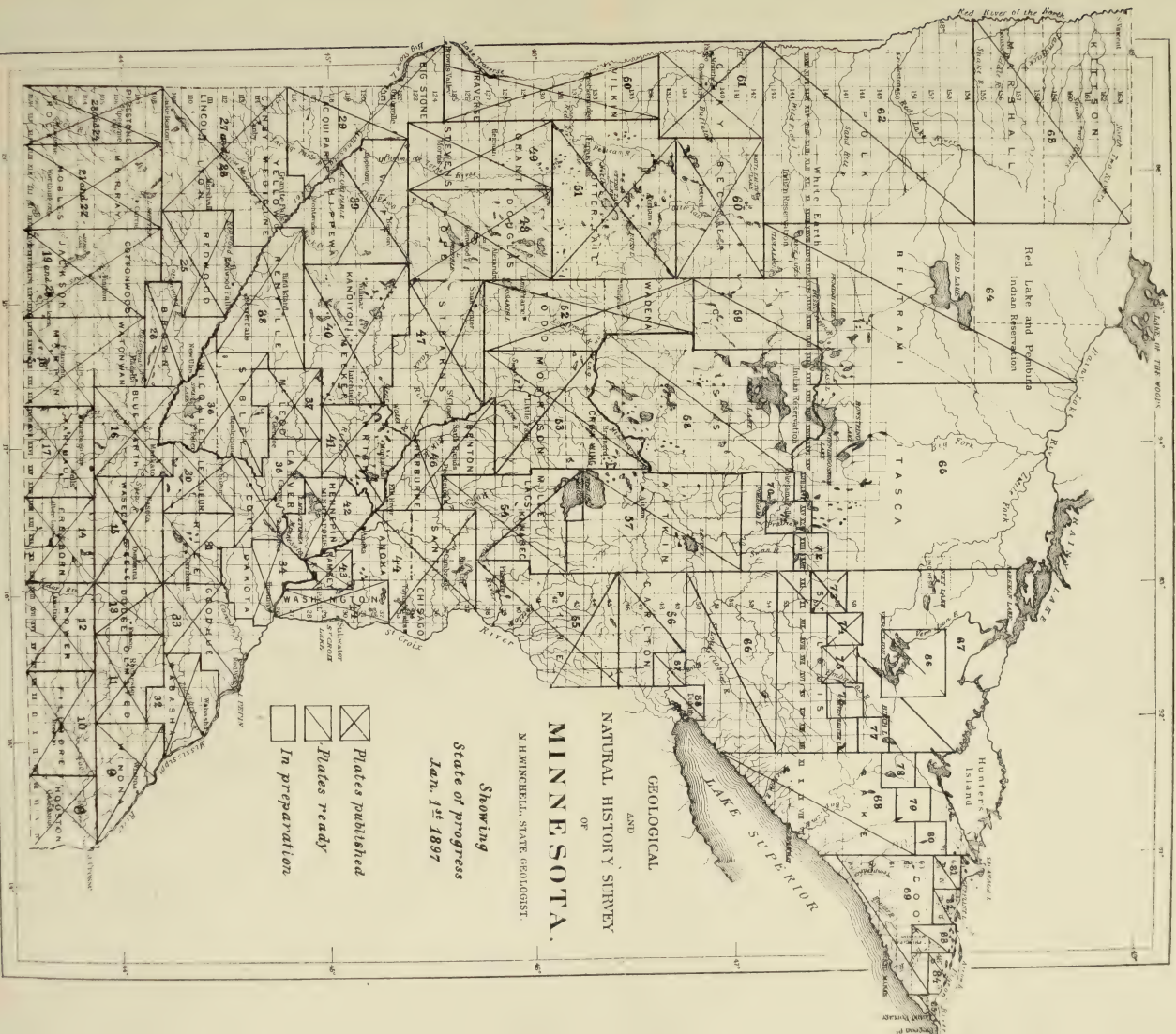
General University		\$41,304.78
College Science, Literature and the Arts.....		69,048.03
Military		795.84
College Mechanics Arts.....		18,984.71
Geological Survey		9,224.64
College of Law.....		10,342.63
College of Medicine.....		30,622.60
School of Agriculture.....		20,025.60
Experiment Station (general station expense).....	\$7,579.31	
Division of Agriculture.....	5,711.88	
Division of Chemistry.....	1,733.07	
Division of Entomology.....	1,074.19	
Division of Horticulture.....	3,045.60	
Animal Husbandry	5,031.84	
		<hr/>
		24,175.89
Dairy Department	\$8,773.19	
Veterinary Department	1,334.23	
		<hr/>
		10,107.42
		<hr/>
Total		\$234,632.14

There have been a number of changes in the corps of instructors in these departments, but none of more importance than that found in the head of the department of English. For the past ten years this department has been under the charge of the affable, painstaking and learned Professor George E. McLean. His work in this institution as a professor, and his authorship of a text-book on early English, brought him to the attention of the University of Nebraska, which in 1895 offered him its chancellorship. Eager to enter a broader field of usefulness, Professor McLean accepted the trust. He leaves our university beloved and esteemed by his students, faculty and regents, and takes with him to his new home the good will of a wide circle of friends.

GEOLOGICAL SURVEY.

The Board of Regents have the satisfaction of reporting the substantial completion of the field work of the Geological Survey, which was put in their charge by the legislature in 1872. The northern one-third part of the state is now being mapped. Parties have been at work in the field since 1886. Many things have occurred to delay the progress of the work, such as the economic development of the iron ranges and the recent discovery of gold in the Rainy Lake region. Extensive research has been made in both of these fields, as the regents thought it wise to include it in these reports, which it was necessary for them to render on the geology of the state. The delay has also been caused by the smallness of





the revenues derived from the salt spring lands. The laboratory work yet to be done consists in the examination of rocks and minerals; the construction of some of the plats and maps, and the drafting of some of the final chapters of the report. The law under which this survey is made requires zoölogical and botanical surveys and the maintenance of a museum.

During the last two years Dr. U. S. Grant, Mr. A. H. Elftman and Mr. Louis Ogaard have been employed occasionally, and Prof. Winchell has been continually in immediate charge.

Since the last report, the twenty-third annual report and Part I. of the third volume of the final report has been published. The second part of this volume is nearly ready; it lacks only the binding. It has been thought best to close the series of annual reports with the twenty-fourth.

There are some minor publications which are ready or nearly ready, viz.: (1) A series of maps, twenty in number, making, with short descriptive chapters, a physical and geological atlas. This, if published, would be of great use and quite adapted to the common schools. (2) A bulletin devoted to a description of the phenomena and characters of the "Winnebago meteorite" which is in the museum.

The accompanying small map of the state, similar to that of the regents' report of 1893, shows at once the plan of the geological plates proposed for the last volume of the final report, and the state of progress at date. This map indicates the plates that have been published, those ready for publication and those in preparation.

DEPARTMENT OF AGRICULTURE.

This department has continued to grow in favor with the farmers of our state. At the last session of the legislature the sum of \$42,500 was appropriated for a dormitory and dining hall. After inviting plans from architects, the Board of Regents selected those of Mr. C. R. Aldrich, and asked for bids for the erection of the building. The following bids were received:

De Lancey & Cook.....	\$30,075
The Angus McLeod Company.....	33,500
J. H. McClay.....	37,785
Trainor Brothers	38,198
James Leck	41,583
F. E. Graves.....	42,673
G. W. Brown & Co.....	44,843
J. A. Nordeen.....	45,000
A. J. Sampson.....	45,700
James Carlisle & Sons.....	43,328
Northern Building Company.....	37,750

Messrs. De Lancy & Cook, having made the lowest bid, secured the contract. The building was erected to the entire satisfaction of the board, and now testifies to the efficiency of the architect and the thorough workmanlike manner in which the contractors fulfilled their contracts. This building is a substantial structure, built of brick and trimmed with Kasota stone, and is well finished throughout. Its dimensions on the ground are 140x84 feet, and it is three stories high above the basement and will accommodate seventy students. It stands on an elevated site, and is a most attractive and imposing structure.

This department received two other appropriations from the state in 1895. One was for a poultry house with equipment, blacksmith shop, and quarters for sheep and swine. The amount of this appropriation was \$7,000. This improvement has been completed.

The other appropriation was the sum of \$15,000, for an addition to dairy hall. Plans and specifications being prepared for this structure, proposals were invited for its erection.

The following bids were received:

James Carlisle & Son.....	\$12,935.00
A. J. Sampson.....	13,550.00
F. G. McMillan.....	14,643.00
Pike & Cook.....	13,952.00
De Lancy & Cook.....	11,996.00
G. W. Brown & Co.....	11,768.00
Angus McLeod Company.....	11,746.00
S. C. Cutler.....	13,550.00
Trainor Brothers ..	11,261.00

The contract was let to Trainor Brothers, who were the lowest bidders, for the sum of \$11,261. The building has been completed, and is in every way a credit to the institution. The addition to dairy hall has nearly doubled its capacity. We can safely say, that this building, with its equipment, has no equal in the country. We believe that it is for the present adequate to the demands of the station.

BUILDINGS.

The dining hall is of Princeton buff brick Kasota stone trimmings, with twenty and sixteen-inch walls; slate roof. It is 140x84 feet, three stories high. It contains a dining-room 42x140 feet, with waiting and toilet rooms either side of the main entrance 28x20 feet, housekeeper's apartments, kitchen, serving and store rooms, help's quarters for sixteen girls, seventy alcove dormitories, and thirty-six study rooms for students. The floor of dining-room

is hard wood; those of dormitories are linoleum to deaden sound; of kitchen and toilet rooms are tile, and of basement are cement. The entire building is finished in white oak. The plumbing and heating are the most durable.

The dairy hall addition is of red pressed brick; has a slate roof and brown sandstone trimmings to match old part. It is 67x60 feet. Contains two large lecture rooms in basement; also, farm dairy and new boiler house and chimney. On the first floor is the large room for cheese factory and home dairying, cheesemaker's office and general cloak and toilet rooms. On the second floor are the laboratory, one lecture room, general offices and toilets. Storage space and bulletin mailing room in attic.

The blacksmith shop is of red sand mould brick walls and iron roof; 30x80 feet, with brick floor. Located near and connected by covered walk with the shops in drill hall. Contains twenty-four well equipped forges.

The poultry house is 68x30 feet; the main part being 20x30 feet, with basement and attic for school and experimental work. The wing is 16x48 feet, containing six pens, with alley at north side and yards at south. It is frame, with shingle roof.

The sheep barn is frame, 36x120 feet, containing fourteen pens, three lambing rooms, wool room, feed room, silo and storage loft. A brick root cellar is provided under and connected with the feed room.

The piggery is 122x20 feet; frame. It contains fourteen pens, feed and cooking rooms. The old pig pens are utilized for wings of this building, but are raised and placed on stone foundations. The new central portion is two stories high.

The growing necessity for a central and lighting plant is becoming imperative. Each additional building without such a plant requires an expensive heating plant of its own, the operation of which makes a heavy addition to the current expense, and the value of which will be almost nothing when the central plant is provided. And when it is remembered that over 300 people are now using kerosene lights in all parts of the buildings, including the barn and stables, it is not surprising that several narrow escapes from fire have been accomplished only by rare combinations of pluck and good management on the part of both students and instructors.

For many years it has been the custom of the board to place the affairs of the Agricultural School and Station in the hands of a professor, who had charge not only of the teaching force, but also looked after the running expenses. It was with the greatest diffi-

culty that the board could find a person who combined the qualities of a teacher with those of an executive. The departments have grown to such an extent that the board has decided that the services of a first-class business man are necessary for the management of the school and station. They have been exceedingly fortunate in securing the services of the Hon. William M. Liggett, who has been for the past eight years chairman of the agricultural committee, to take charge of the affairs of these departments. He has been made dean of the Agricultural School and director of the Station. Mr. Liggett assumed his duties Nov. 10, 1896.

SCHOOL OF AGRICULTURE.

We are pleased to report that this department of the university has continued very prosperous during the last two years; the attendance has made a good annual increase; new lines of practical work have been developed; corresponding additions have been made to the faculty; and additional buildings have been erected.

In December, 1894, Dr. H. W. Brewster, who had assumed the duties of principal at the resignation of Hon. W. W. Pendergast, was elected to the principalship. In the fall term of 1894 William Boss was made instructor in carpentry and engineering; at the beginning of the fall term of 1895 Mr. A. D. Gaines assumed the duties of instructor in language, civics and singing; and at the same time Harry A. Leonhaeuser, lieutenant in United States army, took charge of military drill as successor to Lieutenant Morgan.

The new lines of work added during the past two years are engineering, singing, athletics, and poultry. All lines of practical work have developed in magnitude and quality, and thus given highly satisfactory results.

The additions to the buildings and equipment include the new commodious dining hall, with equipment; the addition to dairy hall, which doubled its capacity and facilities; the new blacksmith shop, with thirteen additional forges; a new poultry house; a new sheep barn, and a newly arranged hog house. The value of the first three buildings named above lies in their increased facility for work already given and demanding more room; that of the last three consists in adding new lines of instructive work in the important subjects of poultry raising and stock feeding.

The summer school for girls enrolled forty-eight students in 1895 and sixty-nine in 1896. The terms were extended six weeks; sewing was added as a new line of practice work, which, together with cooking and dairying, occupied the forenoons of six days in

the week. These lines of practice work, the lectures and drill in chemistry, English, entomology, horticulture, hygiene, and poultry, showed gratifying developments and yielded very satisfactory results. The attendance in the different divisions of the agricultural department was for 1894-95:

College course	9	
School of Agriculture, regular course.....	204	
School of Agriculture, dairy school (two months).....	109	
School of Agriculture, summer school.....	59	
	—	381
Less duplicates		21
		—
Total		360

College course	10	
School of Agriculture, regular course.....	223	
School of Agriculture, dairy school (one month).....	97	
School of Agriculture, summer school.....	48	
	—	378
Less duplicates		22
		—
Total		356

The smaller number enrolled in the dairy school and in the summer school in 1895-96 was owing to the shortened term in the former and the change of time, from June to May, in the latter. Both changes lessened the number enrolled slightly but greatly improved the character of the work done.

The friendly feeling for the School of Agriculture by the farmers of the state and their appreciation of the work it is doing are most gratifying, and are best illustrated by visits of large delegations of representative farmers from different counties. The first of these delegations came from Carlton county, and numbered between thirty and forty members. The second came from Otter Tail county and numbered over seventy. A third delegation, from Yellow Medicine and Lac qui Parle counties, came during the summer school and numbered over 300. The interest and appreciation manifested by all these delegations show most conclusively that the work of the School of Agriculture is both practical and successful.

Again the regents have to report that the dormitory capacity of the buildings is exhausted, and that the constantly increasing attendance renews the problem of increased facilities in this respect. The dining hall, however, proves not only a great convenience but also adequate to the need of the school for some time to come.

The school is now recognized and acknowledged in other states, and also by the national association of agricultural colleges and experiment stations, as the best planned and most successful insti-

tution for the education of farm boys on the continent. More practical work is done, more agricultural students attend, and the students are better fitted and satisfied to return to the farm. And the fact that the Minnesota plan, as it is now called, is studied as a model by other states and by foreign countries gives the regents grateful assurance that their labors are of great value to the state.

THE DAIRY SCHOOL.

The dairy school was designed to furnish persons the training necessary to qualify them to take charge of the numerous creameries and cheese factories that are being erected in various parts of the state, and to give them an opportunity to study the many problems which have a direct bearing upon the dairy industry.

In no branch of agriculture have there been such great changes during the past few years in methods of manufacture as in dairying. It is but a few years since nearly all the butter and cheese made in the state came from the farm; now it is estimated that fully half the dairy products are manufactured in creameries and cheese factories. To adjust ourselves to this new order of things the dairy school became a necessity, and it has proven a great blessing to the farmers of the state.

During the five years that the dairy school has been in operation there has been a steady increase in the number of students in attendance, great improvement in the character of the instruction given, and a wonderful advance made in the dairy industry. The number of students attending the dairy school since its establishment was 28 in 1892, 30 in 1893, 59 in 1894, 90 in 1895, and 97 in 1896. During the session of 1895 the number of applicants for admission was so great that it was found necessary to hold two terms instead of one, admitting the first half of the applicants to the first session and the remainder to the second session.

In order to provide ample room for all students at the regular session and to properly equip the school with the new and improved apparatus, the legislature at its last session appropriated \$15,000. By judicious planning and careful supervision of the construction of the addition, the original plan and estimates submitted to the legislature have been fully carried out within the appropriation granted, and Minnesota has now one of the finest and best equipped dairy buildings in the Union.

Judging from the remarkable growth that the dairy industry has made and the large number of creameries that have been built

and successfully operated since the establishment of the dairy school, the improved quality of our dairy products and the great interest manifested by our farmers in this industry, the money expended in dairy instruction has been fully justified. While we have made rapid strides in methods of manufacturing dairy products and of packing and shipping them, much yet remains to be done in the line of economical production, especially because of the depressed condition of our markets. The introduction of our dairy products into foreign markets and the education of our dairymen in such methods of feeding that our 70,000 dairy cows will make an annual return of fifty dollars per head instead of twenty-five, are problems that deserve prompt attention and careful consideration, as they involve many millions of dollars annually.

The question of admitting women at the agricultural school has been agitated for many years in the agricultural communities of our state. Those who favor coeducation argue that girls should have the same advantages in acquiring a knowledge of those matters which relate particularly to agriculture and farm life, as the boys.

We have made it a point to learn from those who have visited the station during the past two years what their opinion was on this important question. We find that those who come to the station are nearly unanimous in their opinion, that coeducation should be adopted in the agricultural school, and there is a certain agricultural element which has gone as far as to almost demand that the doors of the school be thrown open to the girls.

The Board of Regents are not averse to such a proposition. While they feel that the admission of girls would be a marked departure from the custom in vogue in all other agricultural schools, still they believe, that, since coeducation has met with such success in the collegiate departments of our university, it will be safe and for the advancement of the school to permit coeducation there. The difficulty to the immediate adoption of coeducation in the agricultural school, is the lack of proper facilities. If girls are to be admitted, a separate building and dormitory, with proper equipments, must be erected. A building suitable for that purpose will cost not less than \$25,000, and the additional expenses incurred for instruction, furnishing and apparatus will be at least \$5,000 annually. The board does not know of any agricultural high school which now admits girls, but it is ready and willing to try the experiment, as we believe in affording every facility for the development of the interests of agriculture.

EXPERIMENT STATION.

OFFICERS OF THE STATION.

WM. M. LIGGETT, Chairman.
 WILLET M. HAYS, B. S. A., Vice Chairman and Agriculturist.
 SAMUEL B. GREEN, B. S., Horticulturist.
 OTTO LUGGER, Ph. D., Entomologist and Botanist.
 HARRY SNYDER, B. S., Chemist.
 T. L. HAECKER, Dairy Husbandry.
 M. H. REYNOLDS, M. D., V. M., Veterinarian.
 THOMAS SHAW, Animal Husbandry.
 T. A. HOVERSTAD, Assistant in Agriculture.
 J. A. VYE, Secretary.
 ANDREW BOSS, Farm Foreman.

The receipts and disbursements of the experiment station for the years 1894-95 and 1895-96 were as follows:

1894-95—Receipts	\$2,168.52
Disbursements	31,817.82
1895-96—Receipts	4,849.55
Disbursements	26,387.94

Progress in the Minnesota Experiment Station from July 31, 1894, until 1896 has been marked—far greater than is indicated by an increased expenditure. Farmers of Minnesota, as well as other states, have shown much interest and appreciation of the work. Over 1,000 visited the station between June 1st and July 31st, and carefully inspected it in all its departments. Each delegation has given expression, by resolution or otherwise, of hearty approval of the work being done at both station and school of agriculture, as being practical and of great use to our most important industry. The station officials, with their many duties, continue to meet the demands made on them for public addresses in the lines of agriculture, horticulture, dairying, feeding and breeding, and so long as this does not seriously interfere with the work of the station this demand will be met. The time will come, however, if these demands increase, when only a part of the calls can possibly be met without great addition to the working force of the station.

Over 200,000 copies of press and regular bulletins have been issued and distributed free since the last biennial report. The mailing list has increased nearly 2,000 within the last year.

A law, enacted at the last session of the state legislature, required the regents to purchase and equip two substations, each to contain not less than 320 acres, and appropriated \$20,000 for that purpose, and the additional sum of \$10,000 for the biennial period of 1895-96, with which to pay the expenses of conducting experiments.

The Board of Regents, at a meeting held May 1, 1895, appointed the agricultural committee of the board to carry out the provisions of this act.

The committee, upon invitation of citizens of Crookston, visited that location in company with Professor Hays of the experiment station. The committee made a careful examination of several tracts of land which were offered by the citizens. Mr. J. J. Hill of the Great Northern Railway Company offered to donate the north half and southeast quarter of section 19, town 150, range 46, one mile north of Crookston, reserving the right of way on two railway lines, and on condition that the lands should be used as contemplated in the act of the legislature authorizing the establishing of two substations. Some portions of these lands required draining, and the committee agreed to accept Mr. Hill's donation, provided the citizens would donate \$2,000 to defray the expense of draining the said lands. This proposition was accepted and the deed executed, which deed bears date Aug. 21, 1895, and is approved by the state attorney general.

Good substantial buildings have been erected and the farm has been fairly well equipped. Two hundred acres have been broken, and numerous experiments have been commenced under the direction of T. A. Hoverstad, who has been appointed assistant in agriculture. The farm is now in excellent condition for cropping in 1897.

Much time was spent by some members of the committee in locating the second substation. Sauk Center, Little Falls, Wadena, Aitkin, Carleton, Barnum, Grand Rapids, Staples, and Cloquet were visited. Citizens at all these points were anxious, and made generous offers, to secure the location of the second experiment station farm. The committee, after having given the question of location much consideration and thought, accepted the donation of about 450 acres of land located at or near Grand Rapids, Itasca county, and well adapted to experiments. The county, however, made it a condition that the university should buy the buildings on the farm, which consist of house, barns and out buildings, all in good condition, at the price of \$3,500. This sum was paid to the county on July 2, 1896, and a deed for the east half of section 15, range 35, town 55, and lots 6, 7, and 8, in section 14, also for the north half of the northeast quarter section 15, was received and title approved by the attorney general. The farm is in charge of Warren W. Pendergast, assistant in agriculture and a graduate of the university. Quite an outlay has been made in the erection of additional buildings and in the equipment of the farm.

The experiment station has confined its efforts at Coteau farm, in Southwestern Minnesota, to three or four lines of work.

First—Tillage experiments, introducing field plot tests of many ways of preparing the land and cultivating the soil to make the most of the too often meager rainfalls.

Second—Pasture and meadow experiments on arable and swamp lands.

Third—Forestry experiments, where varieties of trees are tested; also, mixtures of trees suited to planting for prairie wind breaks. Superintendent Gregg is also doing some experimental work with vegetables and fruits.

HISTOLOGICAL AND PATHOLOGICAL LABORATORY.

Although the standard has been raised in the medical department, the attendance has steadily increased. The demands of the department keep constantly in advance of its accommodations. There is especially a lack of apparatus. In 1895 an appropriation of \$40,000 was made for the erection of an histological and pathological laboratory and for the College of Pharmacy and for apparatus and equipment. Plans and specifications were received. Those of Mr. F. G. Corser, architect, were selected as the best. Proposals were received for its construction. The bids were as follows:

Trainor Brothers	\$29,970.00
J. S. McClay.....	31,353.00
J. & W. A. Elliott.....	31,488.00
Emil Brace	31,617.00
James Carlisle & Son.....	31,708.00
James Leck	32,183.00
L. C. Bisbee.....	32,786.00
R. W. McMillan & Co.....	33,440.00
W. F. Porter & Co.....	33,720.00
H. A. Leck & Co.....	34,019.00
A. J. Sampson.....	35,005.00
De Lancey & Cook.....	35,774.00
Pike & Cook.....	35,146.00
Erick Lund	35,619.00
J. Nordeen	36,290.00

Messrs. Trainor Brothers being the lowest bidders were awarded the contract. Work was pushed rapidly; the building was completed and has been occupied for the past year. It is a fine structure, facing on Prospect avenue. It is constructed of buff sand mold brick; its ground dimensions are 150x75 feet. It is two stories high with basement.

The board recognizes with pleasure the satisfactory manner in which the contractors and the architect of this building performed their duties.

While this building provides ample room for conducting the work, there is a lack of proper apparatus and equipment. The appropriation was \$10,000 less than was asked. The board found it impossible to erect a proper building and at the same time to adequately equip it with the appropriation at hand. They made the building all that it should be, believing that at the proper time an additional appropriation would be made for the proper paraphernalia. An additional appropriation of \$15,000 is therefore asked for additional equipment of the College of Medicine and Surgery.

ASSEMBLY AND DRILL HALL.

The board takes pride in the new assembly and drill hall. This magnificent structure stands on the eastern extremity of the campus, and has a commanding site. It is constructed of buff sand mold brick in a style of architecture admirably adapted, both in design and arrangement, for the purposes of its construction. The building is very large. Its ground dimensions are 220x135 feet. It is three stories high. It contains a drill hall, the size of which is 200x85 feet, so arranged that when opened into one large room it affords sufficient space for the drilling of four companies at the same time. The building also contains offices, a library and class rooms. The toilet and bath rooms are fitted up with all the modern sanitary conveniences.

The appropriation for this immense structure was meager, being only \$75,000. Plans were received, and those of Architect Charles R. Aldrich were accepted. As the season was late, it was thought best to put the foundation in and let it set over winter, which was done.

Late in the fall bids for the superstructure were received and the contractor was given until September, 1896, to complete the building. It was hoped that, considering the depressed financial times and the lack of work, that very low bids could be received by letting the contract at a time when much of the interior work could be prepared during the winter months.

The bids justified this conclusion. They were as follows:

	1. As per Plans.	2. Using Stone Wainscoting.	3. Using Block Slate.
Angus McLeod Co.....	\$63,930.00	.....	\$62,830.00
Erick Lund	66,850.00	\$69,593.00	64,945.00
Trainor Brothers	73,772.00	74,972.00	72,300.00
Pike & Cook.....	72,965.50	73,015.50	71,217.00
A. J. Sampson.....	79,800.00	.....	77,688.00
P. W. De Lancey.....	70,566.00	70,616.00	68,554.00
James Carlisle & Son.....	78,325.00	.....	77,100.00
H. Downs & Son.....	71,600.00	72,600.00	71,600.00
Butler-Ryan Co.	74,900.00	77,500.00	76,000.00

The bid of the Angus McLeod Company, together with the cost of the foundation which had already been put in, the heating, plumbing and electric wiring, being in excess of the appropriation, it was decided to cut down the length of the building twenty feet, the height two feet, use brick wainscoting instead of stone, substitute two-inch undressed plank for three-inch dressed plank in basement floor; substitute wooden columns and girders for iron in the two end rooms, and make some other minor changes, thus reducing the cost of the building something over \$4,000, and award the contract to the Angus McLeod Company, the lowest bidder, at \$59,777.

Their bid was so low that the board felt at the time that they would not be able to carry it out with a profit, but owing to the cheapness of material and low wages, and that much of the work, as above stated, could be done in the winter months, the contractors were enabled to carry out their contract to the letter with a fair profit, and at the same time give to the state the largest and most magnificent building of its kind in the country, for a sum of money from thirty to fifty per cent less than the same character of building has cost other institutions.

For the past four years the military department has been under the management of Lieut. George N. Morgan, a son of the lamented George N. Morgan. He is a most excellent officer. His term of detail expired in 1895, and Lieut. Harry A. Leonhaeuser was detailed in his place. He proves himself a capable and efficient officer, and has continued the military department of the university as one of its most conspicuous departments.

CAMPUS IMPROVEMENTS.

An appropriation of \$12,500 was made in 1895 for the grading and general improvement of the campus. Prior to that time nothing had been done to improve the grounds. They had been left in their natural state and presented a ragged and unkept condition. The campus is large, and much ought to be done to make it presentable.

The board made the appropriation go as far as it was possible, but it was not sufficient. As stated in our former report, the city of Minneapolis appropriated \$8,500 for sidewalks and granite curbing about the institution. This liberal appropriation, together with that of the state, has been nearly sufficient to complete the plans for all improvements contemplated on and about the campus. No expenditure made at the university has done so much toward improving its general appearance. There is a demand, however,

for about \$3,000 to complete the work. An appropriation of \$3,000 for this purpose is therefore asked.

The sum of \$10,000 was appropriated for the purchase of a telescope and the construction of an observatory. This much needed improvement has been made. The telescope, with accompanying apparatus, was procured at a cost of \$7,709, and the construction of the observatory and the placing of the telescope cost the additional sum of \$2,291.

The folowing bids were received for the erection of an astronomical observatory:

Pike & Cook.....	\$1,887.00
De Lancey & Cook.....	1,865.00
H. Downs & Son.....	1,550.00
Trainor Brothers	1,779.00
F. G. McMillan.....	2,150.00

H. Downs & Sons' bid being the lowest, the contract was awarded to them.

While the building is small, it is adequate for teaching purposes and supplies a long-felt want.

The sum of \$20,000 was appropriated for the purchase of books for the general library. This was a much-needed appropriation, as the university had outgrown its library. Books are the tools of the student, and it is poor economy to stint the library. Our library does not contain at the present time nearly as many books as do the libraries of Ann Arbor and Madison. We respectfully ask that an annual appropriation of \$10,000 be made for the general library, the libraries of the professional departments and of the School of Agriculture.

WANTS AND NEEDS OF THE UNIVERSITY.

The following is the annual enrollment of the university from 1893, when the first class graduated, to date:

1873-74.....	202	1885-86.....	406
1874-75.....	237	1886-87.....	412
1875-76.....	267	1887-88.....	491
1876-77.....	304	1888-89.....	781
1877-78.....	371	1889-90.....	1,002
1878-79.....	386	1890-91.....	1,183
1879-80.....	308	1891-92.....	1,374
1880-81.....	271	1892-93.....	1,620
1881-82.....	253	1893-94.....	1,828
1882-83.....	223	1894-95.....	2,171
1883-84.....	288	1895-96.....	2,467
1884-85.....	310	1896-97 (estimated).....	2,600

As stated at the opening of this report, the increase in the attendance at the university since 1894 has been about thirty per cent. This marked increase obliges the regents to ask for further appropriations. Success is not considered generally a misfortune, but it seems to be such with the university, as its great success constantly embarrasses it. Funds are provided and appropriations made to meet the wants of a certain number of students, and before the money is expended, a larger number than was anticipated must be provided for, consequently the board labors under difficulties.

For instance, the chemical laboratory, erected as 1889, which was thought ample to serve the department for some years to come, is overcrowded. When the building was erected, it was thought that the attendance in that department would be about 150, and accommodations were provided for that number only. To-day the attendance is 265. The department of botany needs a fire-proof building for the security of its very valuable herbarium and the accommodation of its work. A new chemical laboratory, with proper equipment, is absolutely necessary. The construction of such buildings will so far relieve other departments, that every one attending may be properly taken care of. We therefore ask for an appropriation of \$50,000 to be expended in the construction of a new chemical laboratory in 1897, and an appropriation of \$50,000 for a fire-proof botanical building in 1898.

We especially call attention to the fact that the university is not properly provided with apparatus. The great progress made in the sciences has also made it necessary to provide new and approved apparatus.

Appropriations of a general nature for this purpose are therefore asked.

The regents also ask for appropriations for the agricultural departments as follows:

Electric light and heating plant.....	\$20,000
Horticultural building	18,000
Veterinary building	17,000

There are now some nineteen buildings, valued at \$900,000, belonging to the university. Their erection has increased the money expended for heat, light and for janitors' service. It is necessary to constantly lay out money on them for repairs; they must be painted and kalsomined; floors and blackboards renewed; broken glass replaced; furniture provided and repaired; plumbing overhauled; grate-bars renewed; laboratories and museums kept up;

hose bought and the campus kept in order; books rebound and additions or extra boilers made from time to time to the heating plant, with repairs thereon, to furnish the extra heat required by the construction of new buildings. Other state institutions are provided with special funds to keep their buildings in repair. Up to the present time the university has been obliged to repair its buildings out of its current expense fund. This works an injustice to the university by depriving it of moneys which could be applied directly to the wants of the students. We respectfully ask for a standing appropriation of \$10,000 a year for this purpose.

CONCLUSION.

While the board feels particularly thankful, and is grateful to the legislature for its generous appropriations and support in the past, and fully appreciates the demands made upon the legislature by the many eleemosynary institutions of the state, the very great progress being made in education, in the sciences, and in the demand for new and appropriate apparatus, in the changes made in the method of teaching, and above all the great desire of the youth of our state to avail themselves of an education, compel it to ask it for further appropriations, both for current expenses and for the erection and equipment of an additional building. We confidently hope that the state will furnish an appropriation for the erection of at least two buildings at every meeting of the legislature for some years to come. We presume we shall reach the maximum attendance within the next decade. When the attendance became 2,500 on a population of 1,500,000 in the state, we thought that the maximum attendance had been reached, but with the great development in our agricultural districts, and especially in our mining districts, we have reason to believe that our population in the next decade will be over 2,000,000. With that population we may expect 3,500 students at the university. It would not be surprising, judging from the past, to have that number in attendance within the next five years. It is, therefore, imperative that an appropriation for buildings be made at each session of the legislature, until the maximum attendance of the university is reached; and that no less than one building with the proper equipment be constructed, and that the buildings now completed be thoroughly equipped with all modern apparatus.

Respectfully submitted,

J. S. PILLSBURY,

President of the Board of Regents.

REPORT OF THE PRESIDENT

OF THE

UNIVERSITY OF MINNESOTA.

To the Honorable J. S. Pillsbury, President Board of Regents,

Dear Sir: I have the honor to submit the following biennial report of the University of Minnesota for the two academic years ending July 31, 1896.

The rapid growth of the University of Minnesota during the years of 1894-95 and 1895-96 is clearly indicated by the enrollment of 2,171 students in the former year and of 2,467 students in the latter, being an increase of 639 students in the two years over the number of students enrolled at the time of my last report in 1894. The increase in the number of students during the two preceding years was 454. The total increase during the last four years, therefore, has been 1,093. This is only 281 less than the whole number of students in the university four years ago.

The faculty of the university at the close of the college year 1895-96 numbered 168, distributed as follows:

College of Science, Literature and Arts.....	58
College of Engineering, Metallurgy and Mechanic Arts.....	32
College and School of Agriculture.....	18
College of Law	19
College of Medicine and Surgery	48
College of Homeopathic Medicine and Surgery.....	26
College of Dentistry	23
College of Pharmacy	17

Total	241
Duplicates	73

Total of Instructors 168

In the College of Science, Literature, and the Arts there are—

Professors	20
Assistant Professors	10
Instructors	23
Assistants	5

Total 58

In the College of Engineering, Metallurgy, and Mechanic Arts there are (besides the professors in the College of Science, Literature, and the Arts who give instruction in the College of Engineering also)—

Professors	6
Assistant Professors	4
Instructors	11
Special Lecturers not included in Faculty.....	12
Engineers	2
Total	35

CHANGES IN THE FACULTY OF ACADEMIC COLLEGES.

Prof. Williston S. Hough of the department of philosophy signified his intention to resign his chair in the university, while he was absent on leave in Europe in the year 1894-95. His formal resignation was received in due time, and Mr. Frederick J. E. Woodbridge, who had temporarily filled the chair during the absence of Professor Hough, was elected professor of philosophy and entered upon his duties at the beginning of the year 1895-96.

Prof. George E. MacLean of the chair of English Literature resigned his professorship in the spring of 1895, to accept the chancellorship of the University of Nebraska, to which he had received a call. Professor MacLean had devoted eleven years to the building up of the department of English in the university, had been very successful in his work, and his resignation was accepted with much regret. The chair of English has not yet been filled, but the work was divided during the past year between two assistant professors, one of whom had been called to the university just before Professor MacLean resigned, having previously been professor of English in Ripon College.

In 1896 the following instructors were promoted to the position of assistant professors:

Joseph B. Pike in Latin.
 E. Eugene McDermott in Rhetoric.
 Frank H. Constant in Civil Engineering.
 H. Wade Hibbard in Mechanical Engineering.
 D. T. MacDougall in Botany.
 Charles F. McClumpha in English Language and Literature.
 Frederick Klæber in English Philology.

The following gentlemen were appointed in 1895 and entered upon their work at the beginning of the year 1895-96:

James Richard Jewett, Ph. D., of Brown University, Weyerhaeuser, professor of Semitic languages and history.

Frank H. Constant, C. E., was called to succeed Prof. Joel E. Wadsworth, who in 1895 resigned the chair of structural engineer-

ing. Mr. Constant has during the last year had charge of the work in structural engineering, and it is expected that he will be named as professor of structural engineering whenever the chair is filled.

H. Wade Hibbard was elected in 1895 to a position in the department of mechanical engineering, and was soon after made assistant professor of mechanical engineering. It was understood when Mr. Hibbard was called, that he should in due time be promoted to the headship of the department if experience should justify it.

Lieut. Harry A. Leonhaeuser at the beginning of the year 1895-96 became professor of military science and tactics, his predecessor, Lieut. George H. Morgan's term of service having expired by limitation of law.

Frederick W. Denton was in 1895 elected associate professor of mining in the College of Engineering, Metallurgy, and Mechanic Arts. He entered upon his duties at the beginning of the year 1895-96. In 1896 he was made professor of mining, and at the same time Professor William R. Appleby, who had been professor of mining and metallurgy, was made professor of metallurgy.

A. J. Calais was appointed instructor in French in April, 1896, and will enter upon his duties at the beginning of the year 1896-97.

Professor Francis P. Leavenworth was in 1896 elected director of the observatory.

Assistant Professor Arthur Edwin Haynes of the College of Science, Literature, and the Arts was in 1895 elected professor of mathematics in the College of Engineering, Metallurgy, and the Mechanic Arts.

Frank L. McVey, a graduate of the philosophical department of Yale University, has been appointed instructor in political science, and will enter upon his duties at the beginning of the year 1896-97.

William Halderman Riddle, a student of Harvard University in the graduate course, has been appointed instructor in mathematics, and will enter upon his duties at the beginning of the year 1896-97.

DEGREES CONFERRED.

Since my last report degrees have been conferred as follows:

	1895.	1896.
Bachelor of Arts	28	28
Bachelor of Science	32	44
Bachelor of Literature	34	31
Bachelor of Civil Engineering.....	4	4
Bachelor of Mechanical Engineering.....	3	4
Bachelor of Electrical Engineering.....	7	3
Bachelor of Mining Engineering.....	1	3
Doctor of Philosophy	1	...
Master of Arts	3	6

Master of Science	6	5
Mining Engineer	1	3
Bachelor of Laws	86	104
Master of Laws	2	18
Doctor of Medicine	53	54
Doctor of Dental Medicine.....	12	14
Doctor of Pharmacy	12	15
Electrical Engineer .....	...	1
	<hr/>	<hr/>
	285	337

THE COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

Much might be said in regard to the growth of the work in this college, as regards both the scope of the work and the demands made on the university by reason of the ever-increasing number of graduates from high schools in all parts of the state who are coming to the university. I will, however, merely say in reference to the college generally that its work has been very satisfactory, and the demands have been met as fully as was possible. I desire to call the attention of the regents to the needs of two departments in this college—chemistry and botany.

The work in chemistry has increased to such an extent, by reason of the large number of students, as to make it almost impossible to find space in the buildings or time in the day for all the work of the students. The chemical laboratories do not begin to meet the requirements. The professor of chemistry has done his best to utilize every nook in the building. But the plain fact is that the laboratory is not large enough, and another is needed. The space at present occupied is as follows:

General chemistry and qualitative laboratory.....	2,720 square feet
Quantitative laboratory	1,360 square feet
Organic laboratory	900 square feet
Lecture room	1,440 square feet
Special laboratories	1,200 square feet
	<hr/>
Total	7,620 square feet

It is only by dividing classes into six or seven sections and using all possible time in the week, that the work can now be done. It will be impossible to meet the requirements even in this way if there should be further increase of students.

The professor of chemistry makes the following statement of the actual floor space needed to accommodate the students in chemistry at the present time:

General chemistry laboratory.....	8,000 square feet
General qualitative laboratory	6,000 square feet
General quantitative laboratory	3,600 square feet
General organic laboratory	2,500 square feet
General lecture room laboratory	4,200 square feet
Special laboratories	7,200 square feet
Store rooms, balance rooms, construction rooms, etc.....	2,600 square feet
Total	34,100 square feet

This does not include halls, partitions, walls, hoods, etc.

The contrast between the room now available and this statement of what is needed, shows very clearly that some action is required to meet the present necessities of the department. Probably a somewhat smaller estimate than that made by the professor of chemistry might suffice for a time, but it is wise in building to consider the future somewhat.

The departments of botany, animal biology, geology, and mineralogy, drawing, mining, and metallurgy, together with the museums and the geological and natural history survey, are all accommodated, so far as may be, in a single building, Pillsbury Hall. As a result, several of the departments are badly crowded. If a building could be erected for the accommodation of one of these departments, it would relieve all the other departments. If a building is to be constructed for any one of these departments, it would seem that it should be for the department of botany, because the herbarium of the department is of great value, is now liable to destruction, and should without unnecessary delay be placed in a fire-proof building. It is desirable that the work of the department should be conducted in connection with the herbarium, and one building, therefore, should accommodate the whole department. As showing the value of the herbarium, and the needs of the department of botany, I quote a statement prepared by Prof. Conway MacMillan, under whose energetic management the herbarium has been created and the department brought to its present efficient condition:

The university herbarium contains in round numbers very nearly 200,000 specimens. It is rapidly increasing in size under a skillfully organized system of exchange founded by the Department of Agriculture at Washington, afterward placed in charge of Dr. J. H. Sandberg, then special agent for the government, and from him secured for the University of Minnesota.

Only four American herbaria lead the Minnesota collection in numbers and value. The order is as follows:

Columbia University, New York.....	500,000
Harvard University, Boston.....	500,000
National Herbarium, Washington.....	280,000
Shaw Garden Herbarium, St. Louis.....	225,000
University of Minnesota Herbarium.....	200,000

All these except the last are provided with fire-proof buildings.

Among the most important foreign collections which have been acquired by the University may be mentioned the following: Pringle's *Plantæ Mericanæ*, Huth's *Astragali*, Butler's *Jamaican Algæ and Ferns*, Fendler's *Plants of Trinidad*, J. G. Smith's *Plants of Mexico*, Macoun's *Mosses, Hepatics, Lichens and Fungi of Canada*, Spruce's *South American Hepaticæ*, Franceschi's *Plants of Guadaloupe Islands*, Palmer's *Mexican Collection*, Murray's *Plants of Scotland*, Krieger's *Fungi of Saxony*, Von Thuemen's *Mycotheca Universalis*, Wood's *Natal Collection*, Wittrock and Nordsted's *Algæ*, Prain's *Peninsular Indian Collection*, Roumeguere's *Fungi of France*, Sydow's *Mycotheca Marchica*, Lange's *Plants of Iceland and Greenland*, Schumann's *Odessa Collection*, Britton's *Ferns of Africa*, Schlechter's *Plantæ Africanæ*, MacOwan's *Cape Colony Collections*, Tiseliu's *Swedish Potamogetons*, Waghorne's *Labrador and New Foundland Plants*, Ule's *Mosses of Brazil*, Prain's *Plants of the East Indies*, Roman's *Swedish Collection*, Buysmann's *Astragali*, Heller's *Plants of the Sandwich Islands*, Renault and Cardot's *Mosses of Europe*, Gorman's *Plants of Alaska*, Le Joli's *Algæ of Cherbourg*, Ardisson's *Algæ of Italy*, Rabenhorst's *Algæ of Saxony and Middle Europe*, Henry's *Plants of China*, and many others equally valuable, comprising material from such collectors as Regel, Szovitz, Sadler, Ball, Wray, Sintenis, Dickson, Rostan, Alexander, Clarke, Murray, Petrie, King, Cook, Moggridge, Bornmuller, Aitcheson, Lady Dalhousie, Wright, Sinclair, Whyte, Parnell, Boissier, Wood, Helper, Fendler, Ascher-son, Bourgeau, Dubec, Trail, Czato, and covering almost all parts of the world.

Of American collections a very full representation of recent work has been provided, including Heller's *Plants of North Carolina*, Pringle's *Plants of Arizona*, Greene's *Plants of California*, Eastwood's *Plants of Colorado*, Patterson's *Plants of Colorado*, Stewart's *Plants of Iowa*, Calkin's *American Lichens*, Willey's *American Lichens*, Underwood's *American Hepatics*, Ellis and Everhardt's *North American Fungi*, Tilden's *American Algæ*, Collins, Setchell and Holden's *North American Algæ*, Suksdorf's *Plants of Washington*, Parish's *Plants of California*, Williams's *Plants of Montana*, Maxwell's *Plants of Texas*, Langlois' *Plants of Louisiana*, Price's *Ferns of Kentucky*, Bodin's *Kansas Astragali*, Heller's *Plants of Virginia*, Kearney's *Plants of Kentucky*, Moffat's *Plants of Illinois*, Williams's *Lichens of the Dakotas*, Bushe's *Plants of Missouri*, Bushe's *Plants of Oklahoma and Indian Territory*, Jepson's *Plants of California*, Bourglehouse's *Yellowstone Park Collection*, Heller's *Plants of Pennsylvania*, Carleton's *American Uridineæ*, Williams's *Mosses of Montana*, Nelson's *Plants of Wyoming*, Koenig's *Plants of Pennsylvania*, Piper's *Plants of Washington*, Palmer's *Idaho Astragali*, MacDougal's *Plants of Arizona*, Sandberg, MacDougal and Heller's *Plants of Idaho*, Morgan's *Ohio Myxomycetes*, Mulford's *Plants of Idaho*, Heller's *Plants of Texas*, Cumming's *Lichens of North America*, Curtis's *Plants of Florida*, Watson's *Plants of Ohio*, Eaton's *Plants of New Hampshire*, Howell's *Pacific Coast Plants*, Jepson's *California Collection*, Curtis's *Southern Plants*, Seymour's *Economic Fungi*, Fink's *Lichens of Iowa*, Bates's *Plants of Nebraska*, Nash's *Plants of Florida*, Pollock's *Plants of West Virginia*, Curtis's *Algæ Floridanæ*, Wheeler's *Plants of Michigan*, besides numerous other large collections by such men as Dodge, Lucy, Osterhout, Ruth, Baker, Parish, Cole, Glatfelter, Wilkinson, Orcutt, Eggers, Saunders, Wright, Watson, Umbach, Davis, McDonald, Deane, Sonne, Griffiths, Morton, Kelsey, Pratt, Pollard, Swan, Demetrio, Tracy, Earl, Holway, Bailey, and others representing all parts of the United States.

In connection with the Geological and Natural History Survey of Minnesota a special effort has been made to bring together a complete and scientific collection illustrative of the Minnesota plant population. Nearly 50,000 specimens from all parts of the state have been accumulated, representing the different groups of plants from bacteria, slime-moulds, algæ and fungi to the higher liverworts, mosses, ferns, and flowering plants. Among the collections are those of Sandberg, Aiton, Schofield, Holzinger, Moyer, Miss Manning, Menzel, Wickersheim, Lugger, Hvosllef, Sandsten, Fink, Arthur, Bailey, Holway, Upham, Winchell, Kassube, Herrick, and many other Minnesota botanists, together with the large collections made by the state botanist and by his assistants, Messrs. Sheldon, Ballard, Taylor, Frost, Anderson,

and Miss Tilden. As a systematic state collection, it is believed that that of Minnesota stands easily first in America.

Besides the herbarium the foundations of a botanic museum have been laid and several wood collections and an alcohol exhibit are already in place.

The botanical library, comprising about 2,000 bound volumes and 3,000 pamphlets, in conjunction with the herbarium and museum and supplemented by the laboratories of plant anatomy and plant physiology, is an excellent implement not only for instruction, but for original scientific investigation. Herbarium, library and laboratories must be kept together, and to do this safely and properly it is imperative that a suitable house should be provided not exposed to danger by fire. In conjunction with this a necessary building for the growing of native and exotic plants should be erected. Otherwise proper instruction through the winter months will continue to be impracticable, and is impossible at any time in such a department of the subject as plant physiology without this additional equipment.

The need of the department, then, is a fire-proof building, in which should be inclosed the herbarium and botanic museum, together with the library and necessary laboratory, preparation, lecture and office rooms. Without such a building there can be no certainty that this priceless collection, accumulated under peculiarly fortunate conditions, will be safe from destruction or loss.

COLLEGE OF ENGINEERING, METALLURGY AND MECHANIC ARTS.

This college during the last two years has made substantial progress. Professors Eddy, Denton, Hibbard, Kirchner, and Constant, who have in that time been added to the corps of instructors, have all brought to their work such learning and experience as have added largely to the range and effectiveness of the instruction given in the college. The work in mathematics, so essential to successful engineering, has been greatly strengthened, particularly along theoretical lines, by Professor Eddy; and it will be still further improved in quality, if not in range, by the experience and tact of Professor Haynes, who will hereafter give his whole attention to training students in engineering in the mathematics specially needed by engineers.

The department of mechanical engineering has been strengthened by the coming of Assistant Professor H. Wade Hibbard from the position of chief draughtsman to the Lehigh Valley Railway Company, to devote himself to machine design, locomotive engineering and car design. The work along these lines, in connection with some locomotive testing which the liberal policy of the Minneapolis, St. Paul & Sault Ste. Marie Railway management enabled the professor and his students to perform, has already aroused much interest and enthusiasm.

The department of drawing has been strengthened by the coming of Assistant Professor William H. Kirchner, who was appointed in December, 1894. The work is now emphasized along the specific lines of lettering, constructive and descriptive geometry,

and working drawings which need the attention of students preparing for special duties as professional engineers.

The school of design, which was developed largely through the personal efforts of Henry T. Ardley, has been discontinued as a separate school since Mr. Ardley's resignation two years ago. The work, however, with some minor modifications, is now in the hands of Assistant Professor Kirchner, under the name of Industrial Art. This work could be greatly extended with wonderful advantage to the state. Nothing but funds is wanting. I ask your special attention to this matter of providing means for enlarging the work in industrial art.

The school of mining and metallurgy has made noticeable advances since the report of two years ago. The ore-testing laboratory then announced as under construction has been completed and equipped with machinery of the most approved pattern. The plant is one of the most complete in the country, and has already attracted much attention and received favorable comment.

The action of the last legislature in appropriating \$5,000 annually for the support of this school made possible a much-needed extension of its facilities. The work in mining has been more clearly defined as compared with metallurgy, and Frederick W. Denton, mining engineer to the Minnesota Iron Company, was elected one year ago as associate professor of mining and metallurgy. He has now become professor of mining. With the arrival of Professor Denton an important line of professional preparation was made possible. Field work in mining and metallurgy is now conducted. Four weeks each of sophomore and junior years are given to mining work, mine surveying, and the investigation of modern metallurgical plants. During the spring term a month was spent in the iron mines of the Vermillion range, in most satisfactory work, by a class of fifteen students.

MILITARY DEPARTMENT.

The instruction in military science is a part of the curriculum of the university because by the act of congress granting lands for the encouragement of agriculture and the mechanic arts, military science is required to be taught in all institutions receiving the benefit of the land grant. It cannot be doubted that the military drill is most beneficial to the students, and I am glad to say that it is now regarded with more favor by the students than ever before. The appearance of the young men during drill has decidedly improved, and the battalion of cadets was at the last inspection

awarded high praise for its soldierly appearance and efficiency, by the officer detailed by the war department to inspect it. The discipline is excellent, and the results of the training most agreeable, both as respects physical culture and self-control, and obedience to proper authority.

The instruction given has been both theoretical and practical. The theoretical instruction has embraced recitations in the drill regulations and in the elements of military science, together with a series of lectures by Professor Leonhaeuser on army organization, army administration, military law, guard and outpost duty, transportation, field operations, and kindred subjects. The practical instruction has comprised drills from the setting-up exercises to the various evolutions of the battalion. In these drills the student officers have exercised command of their different units, and a commendable spirit of rivalry has been created and has had a pronounced and beneficial effect on the whole organization.

Besides the four companies composing the battalion, an artillery platoon of twenty cadets and a bicycle corps of twenty-six cadets have been formed and drilled in the special maneuvers adapted to each. Military instruction has been given in the school of agriculture with the best results. Lieutenant Leonhaeuser has proved himself a most agreeable and competent commander.

THE ARMORY.

This building was provided for by a special appropriation of the last legislature. It is now completed and in use. It is a substantial structure, 220 feet wide by 135 feet deep. It stands at the southeast end of the campus, near University avenue, and forms a very pleasing demarcation between the university grounds and the residence property beyond.

On the main floor, at the top of an entrance ramp twelve feet wide, is the main drill room, 140 by 80 feet clear floor space and two stories high. A suspended balcony extending around all the sides except at the stage, affords seating space for about 800. The main floor when used as an assembly hall will accommodate about 2,100. The stage is thirty-six by twenty-seven feet and will accommodate 100. The total seating capacity of the main room is, therefore, 3,000. Removable partitions make two side rooms available when needed, with accommodations for 800 more, so that an audience of 3,800 can be seated at once in the great hall. The two rooms adjoining the main hall, thirty-six by ninety-five feet, are for squad and artillery company drill. When these

rooms are opened to the main hall there is in all three rooms a drill floor of 18,000 square feet. Adjoining the balcony on the third floor is the band room, for cadet band practice and the storage of instruments. At the right of the principal entrance on the main floor are the commandant's offices, library, and lecture room; on the left are two company rooms.

The basement, which is entirely above ground, contains more company rooms, artillery and toilet rooms, lockers, bicycles, storage space for chairs, the heating and ventilating apparatus, etc. In the sub-basement is an indoor rifle range 220 feet long, bullet-proof, with a passage at side for the target man.

The structure is built of buff sand-moulded brick and pink Kasota stone walls, on a foundation of native bluestone. The floors are of heavy timber construction with planking three inches thick, and contain no concealed spaces for fire to travel in. The roof is slate and composition gravel. Toilet rooms are furnished in marble and best open work plumbing. Twelve fire plugs are provided for fire protection.

The heating is a combined plenum and direct radiation system, so arranged that hot air may be forced into the large rooms for a few hours at a time, thereby making a saving in fuel and securing fresh air for occupants at the same time, it being possible to change the air in the three large rooms six times per hour.

The whole building is lighted with electricity, arc lamps being used in the large rooms and incandescent lamps in small rooms and corridors, with an open work system of wiring.

THE OBSERVATORY.

The last legislature made an appropriation of \$10,000 for an observatory. In the summer of 1895 the computing room and the dome were built, as an addition to the transit house which had been erected a few years before. The computing room was built to accommodate a few students in practical astronomy, and has connected with it a dark room for astronomical photography. The dome was made larger than is customary for the size of the telescope, in order to have ample room for large classes in general astronomy, and to accommodate the photographic and spectroscopic attachments. Its diameter is twenty-two feet. The shutter in the dome was made one foot wider than is usual, for a similar reason. The cost of computing room and dome was about \$2,000.

The equatorial telescope purchased for the observatory was made by Warner & Swasey, and the object glass by Brashear. It

was mounted in May, 1896. It is ten and a half inches clear aperture, and thirteen feet in length. The magnifying powers range from 80 to 600 diameters. As accessory apparatus there are eleven eyepieces, a filar micrometer, a diagonal prism, a three-inch finding telescope, and a helioscope. These with the driving clock, coarse and fine circles, etc., furnish a most complete visual telescope.

The adaptation to photography is very novel and efficient. The front lens of the object glass is replaced by a photographic lens, which fits into place by an ingenious device. The whole eye end of the telescope is removed and the photographic plate holder attached. The plate holder was designed by Warner & Swasey after the most approved style. Attached to the telescope is the photographic following telescope. The cost of the equatorial complete is \$5,165.

The photographic measuring machine has been ordered of the great German instrument makers, Repsold & Sons, but is not yet finished. It is probably the most perfect instrument of its kind ever constructed. Its cost will be \$700.

The spectroscope has not been ordered yet.

Quality of Instrument.—During June and July there were many clear nights suitable for testing the telescope. It has proven to be of the highest quality, as is conclusively shown by the separation of the most difficult double stars. The photographic part has not been tested, but there is every reason to believe it also is a perfect instrument.

Work of the Observatory.—On the completion of the telescope a request was received from Professor Burnham of the Yerkes Observatory, that we observe a list of double stars that needed re-measuring, and which he wished incorporated in his great work on double stars. The measures were immediately begun, and during June and July 300 measures were made. Of these twenty-one have distances less than one-half second. This work has been carried on during the entire part of every clear night, except when interrupted by visitors.

Instruction has been given in practical astronomy during the summer. Two students are working for the Master's degree, while four are teachers or professors from this and neighboring states.

On moonlight evenings visitors are admitted to the observatory, at the rate of about 150 persons a month.

THE LIBRARY.

By the liberality of the last legislature 2,794 volumes were added to the library in the year 1895-6, and probably several thou-

sand will be added in the year 1896-7. Six hundred and ninety volumes were received in the same time by gift. While this is most gratifying, it yet means but small additions to the books of many of the departments. There should be an annual appropriation for the library, so that the institution may keep up with the progress of science and learning. The following summary shows the number and distribution of books belonging to the university:

General library	31,671
Law	3,483
Medicine	1,276
Agriculture	3,168
Geological Survey	432
Department libraries	8,639
Total	48,669

Some idea of the adequacy of some of the department libraries may be formed from the following table, showing the number of books in most of the special department libraries:

	Books.	Pamphlets.
Chemistry	493	.....
Botany	1,940	3,500
Biology	1,473	190
Physics	383	95
Engineering	816	140
Mining and metallurgy	200	.....
Military science	34	3
Art	55	30
Pedagogy	161	100
History	434	.....
Greek	1,047	12
Latin	468	200
Rhetoric	161	.....
Geology	533	175
Geological Survey	432	4,100
Astronomy	35	3

There are, of course, in the general library books pertaining to most of these departments, but the foregoing table shows the number of books in the rooms of the various departments available for immediate use in class or seminar room.

I ask that a generous policy towards the library, as the very heart of the university, may be pursued by the regents and the legislature.

DEPARTMENT OF AGRICULTURE.

The work of this department in the School of Agriculture, the College of Agriculture, and the Experiment Station has been peculiarly satisfactory.

First—The last legislature appropriated for buildings at the University Farm the sum of \$64,500. With this money the board

of regents erected a much needed dining hall, costing \$42,500, with seating capacity for over 400 students and in the upper stories dormitory rooms for about seventy-five students of the School of Agriculture. The capacity of the dairy hall was doubled, and Minnesota now is said to have the most capacious dairy school building in America, if not in the world. Large rooms are provided for the practice and lecture work in cheese making, butter making, dairy engineering, dairy stock, dairy chemistry, with ample offices and facilities for the work in dairy experimentation. The enlargement cost \$15,000. A sheep barn was erected and thoroughly equipped with silo, root cellar and other appliances for instruction and experimentation in sheep husbandry. A blacksmith shop was built. Improvements were made in the buildings for swine, and material improvements were made in the barn for cattle and horses. A model poultry house was erected. These several buildings and improvements last named cost \$7,000.

Second—In respect to the work in charge of the professor of agriculture, it is especially to be noted that a most desirable change has been made in the management of the university farm. It is no longer a mere model farm, but is an experiment farm. The land is divided into plots for experiments much more than formerly. An extended study of economic questions relating to field management, such as the rotation of crops, pasturing, manuring, etc., has been inaugurated. Some of the varieties of field crops that have been proved to be the best, are being produced in quantity and disseminated to the farmers of the state. It is believed that in this way the farmers will gradually get seeds of better producing sorts, at cost, and standards of merit will be set which seed dealers must follow. Experiments in tillage, especially in relation to conserving soil moisture in our drouhtier counties, are being centered in the station work at "Coteau Farm" in Lyon county. Experiments in the matter of feeding horses are being made a leading line at the Northwest Sub-Experiment Farm. Forest cropping and management will naturally be a leading line of experimentation at the Northeast Sub-Experiment Farm. Other lines of diversified farming and stock raising will be taken up on these farms. Students in the School of Agriculture are given lectures and some practice work relating to fields, crops, the erection of buildings and fences, the making of roads, the handling of grains and machinery, and an assistant agriculturist gives instruction in the dressing and curing of meats.

Third—The horticultural work has made good progress and stands well in the estimation of the horticulturists of the state. Garden, orchard, ornamental and forest plantations are being extended on the various experiment and trial farms, and Minnesota is being taught by successful examples that we may have a wealth of vegetables, ornamental trees and shrubs and forest trees if we will plant and cultivate intelligently. Professor Green has published a valuable manual entitled "Amateur Fruit Growing," and he has another volume, on vegetable culture, ready for publication.

Fourth—The entomologist, Dr. Lugger, has fought chinch bugs, grasshoppers, and other insects so vigorously that he is constantly in demand in summer from all parts of the state to aid in combating our insect foes. Prominent in the investigation of insects is the study of animal parasites, concerning which a bulletin is soon to be issued. A very useful collection of the animals, insects and plants of the state is being rapidly made in the agricultural museum. The legislature deemed experiments in destroying insects of so much importance that at the last session a special annual appropriation of \$5,000 was made to aid in destroying chinch bugs and grasshoppers.

Fifth—The division of agricultural chemistry has developed a most useful course of practical instruction in chemistry for the farm school boys, for the ladies in the summer school, and for the students in the college course; and also some special advanced courses in agricultural and domestic chemistry. The experiment work along the line of human foods has gained the recognition of the department of agriculture at the national capital, and some special funds for this class of work have been provided by the department. A most interesting study of Minnesota soils has been made by Professor Snyder, and studies of the feeding requirements of various crops have been pursued. Our farmers send in numerous samples for analysis, and students are taught the analysis of the soils and food products of their own farms.

Sixth—The dairy division is still giving prominence to experiments and instruction in the best type of cow for dairy products. Experiments in making Gouda cheese have resulted in a method of making a good sweet curd cheese which the good rural housewife can make in a few hours without leaving her regular duties for a whole day, as is necessary in making the American cheddar cheese. The Dairy School for Factorymen had an attendance of 109 in 1895 and 97 in 1896, most of whom paid especial attention to the manufacture of butter in coöperative creameries, some to

making cheddar cheese, and a few to making sweet curd cheese. Professor Haecker does much work throughout the state in holding dairy meetings.

Seventh—The veterinary division has carried out useful experiments in bovine tuberculosis and in the use of hypodermic cathartics for horses, and will soon issue bulletins on these subjects. Dr. Reynolds has awakened people to the importance of vigorously dealing with bovine tuberculosis in relation to human health, and this has been so admirably done that but little opposition has been aroused. The time seems to have arrived when society is ready to use some preventive measures to avoid in part at least that terrible scourge, human tuberculosis. The young men at the School of Agriculture are taught much about diseases, but most about the prevention of disease, and simple, practical animal surgery. This division is in need of a well-equipped veterinary building, which might be arranged to also accommodate the live stock lectures.

Eighth—The division of animal husbandry is making a study of the fattening of beef cattle and of sheep, and the pasturing of sheep in summer, especially of the value of summer crops for pasturage. Some experiments in the breeds of sheep and swine, and in cross-breeding these classes, are also under way. The various classes of students receive lectures and practice work in live stock subjects, and Professor Shaw gives addresses to farmers' meetings and furnishes much copy on live stock subjects to the public press of the state.

Ninth—Instruction in poultry keeping has been started, with Mr. J. M. Drew as teacher. The new blacksmith shop affords excellent facilities for teaching farm repair work in iron, and Instructors C. R. Aldrich and William Boss have increased the efficiency of instruction in drawing farm buildings and in wood work in the School of Agriculture. Instructor William Robertson has arranged a course of study in agricultural physics, and Secretary J. A. Vye has developed courses of instruction in farm book-keeping and keeping books in dairy factories. Mr. A. D. Gaines was added to the list of instructors in general school subjects in 1895, and Mr. R. H. Pettit was employed as assistant in the entomological department. Several practical factory managers are employed during January of each year in the factory dairy school.

Tenth—The Agricultural Summer School for Women has now been held very successfully for three seasons. The attendance was 59 in 1894 and 68 in 1895. The work is not yet all that it ought

to be. The regents are carefully considering the subject and will reach definite conclusions soon.

Eleventh—Under a law passed in 1895 appropriating \$20,000 for procuring and equipping two sub-experiment farms, and \$10,000 for their support for the years 1895 and 1896, one such farm was located by the board of regents at Crookston, Polk county, designed to meet the requirements of the Red River Valley district. Another was located at Grand Rapids, Itasca county, designed to meet the requirements of the great forest region of northeastern Minnesota. Each of these farms contains 450 acres of land, well chosen to serve in the various experiments especially needed in the district in which it is located. Some experiments especially applicable to southwestern Minnesota are being carried on at "Coteau Farm," Lyon county, the homestead of Mr. O. C. Gregg, superintendent of the Minnesota farmers' institutes. Buildings suited to experiment work have been erected at the two sub-experiment farms, and the work has been regularly organized with the professor of agriculture, W. M. Hays, in charge. Mr. T. A. Hoverstad at Crookston and Mr. Warren W. Pendergast at Grand Rapids, assistants in agriculture, are resident managers, each being a graduate both of the School of Agriculture and of the College of Agriculture. The farmers of these districts are already showing a deep interest in these sub-experiment farms. The work of similar experiment farms in other parts of America has been thoroughly studied, and the work of each sub-experiment farm is being rapidly arranged so that the questions of greatest importance to agriculture may be studied.

Twelfth—Forty-six bulletins have been issued since the experiment station was started, fourteen of which were issued during the last biennial period. The experiment station now has a list of 16,000 farmers to whom the bulletins go free of even postage, and this list is being rapidly enlarged upon request. Besides the bulletins an annual report is issued containing the substance of the bulletins issued during each year, and other matters relating to the experiment station and to the educational work of the department. These annual reports are issued in limited numbers, but as they contain valuable facts, enough should be printed to furnish one to each public library and to rural school districts. Several press bulletins have been issued, also, touching upon subjects of immediate interest to the farmers of the state. Annually there is shown an improvement in the quality of the experiments reported by our station workers.

Thirteenth—Through the invitation of President J. J. Hill of the Great Northern Railway, and the liberality also of the officials of the St. Paul & Duluth, of the Minneapolis & St. Louis, and of the Soo Line, delegations of farmers have visited University Farm from various counties and districts of the state at various times during the past year. Carlton county, upon the invitation of the St. Paul & Duluth Railway, first sent a delegation of representative farmers, seventy-five in number. Kittson, Marshall, Otter Tail, Douglas, Swift, Stevens, Kandiyohi, Wilkin, and other counties followed with like representative delegations of prominent farmers, who came as guests of the Great Northern. This road also brought one delegation from Traill county, North Dakota, and one from Watertown, South Dakota. Delegations of from 100 to 350 came on very cheap excursion rates offered by the Minneapolis & St. Louis Railway from the western and central parts of the state, to the University Farm. These delegations arrange with the officials at the experiment station as to the time of their coming. Each member of the faculty stops his work long enough to tell the crowd of visitors in a general way what he is doing in the experiment station. Refreshments are served and each member of the faculty briefly states to the visitors in an after-dinner speech what and how he is teaching the boys and girls. In all, 2,000 visitors have thus been shown the agricultural department of the university during the past season, and more such delegations are constantly accepting the kind offer of free or cheap transportation proffered by the railway managers. The railway officials have recently learned to take great interest in this most useful department. They see the importance to all concerned that the farmers along their lines awaken to the advance of agricultural thought.

I am very glad to bear witness to the harmony, earnestness and enthusiasm with which the work in the agricultural department has been carried forward, and I acknowledge with special gratitude the appreciation of the work shown by the farmers, the coöperation of agricultural organizations, particularly the farmers' institutes, the assistance rendered by the press, especially the agricultural papers, and I congratulate the regents and the people of Minnesota on the very happy solution of what was once the most difficult problem the university was ever called upon to solve.

COLLEGE OF LAW.

The College of Law, which has been continuously prosperous ever since its organization, has during the last two years made special improvements in several important particulars.

The course of study has been enlarged and enriched by additional subjects of legal importance, and the time necessary for the completion of the course has been extended to three years, giving at the present time a day and an evening school, each extending over a period of three years, and in addition to these a graduate department comprising general jurisprudence, political science, constitutional history, and other subjects of unusual interest and importance.

Besides this extension of time and the improvement of the course of study, many valuable additions have been made to the library, but not such abundant additions as the rapid growth and general development of the department demand.

Hon. A. C. Hickman was made a member of the faculty of law at the close of the last academic year, as professor of pleading and practice. Having occupied this chair for two years, and having demonstrated his peculiar fitness for the position, it is believed the department has been substantially strengthened by Judge Hickman's election to this important professorship.

Additional requirements for admission to this college have also been made, and a more rigid application of the rules for admission is gradually enforced. It is the policy of the department to demand the highest qualifications for admission to the regular courses leading to the degree of Bachelor of Laws that the conditions and circumstances of young men in the Northwest seeking entrance here will admit.

In order that legal learning may be disseminated also among the young men whose tastes and necessities guide them into other than professional pursuits, a course of study has been provided, comprising chiefly the various branches of commercial law and extending over a period of one year, to which all persons of sufficient age and ability to prosecute the work with profit are admitted; and already several young business men have pursued this course greatly to their benefit, and expressed satisfaction.

The methods of instruction, while substantially the same as from the beginning of the department, have been materially improved during the last two years by supplementing them with carefully prepared works on elementary jurisprudence, prepared by the instructors and furnished the students in their respective branches of the law.

As to the length of time for procuring a degree, as to the thoroughness of the work demanded and attained, and as to the breadth and scope of the work performed in its undergraduate and graduate

departments, it is probably true that this college is now fairly abreast of the first-class institutions of a similar nature in the older portions of our country.

MEDICAL DEPARTMENT.

COLLEGE OF MEDICINE AND SURGERY.

The greatest hindrance to medical education in this country is the low standard of preparatory education required for admission to the medical colleges. It has been possible for anyone to enter a medical college, even though he had less education than would be required for admission to a good high school. Medical colleges that set up a higher standard for admission did not always or often live up to their own regulations. It is one of the hopeful signs of the times that this condition of things is passing away, and admission to medical colleges of good repute will hereafter be possible to those only who can present evidence of considerable preliminary training. A few institutions have advanced the requirements for admission to a diploma of a college. In this university, upon the request of the faculties of the College of Medicine and Surgery and the College of Homeopathic Medicine and Surgery, the regents have voted that on and after the college year beginning October, 1899, all applicants for admission to these colleges will be required to pass the entrance examinations provided for the students of the academic department of the university, or present in lieu thereof the equivalents accepted for admission to that department. This means that a student to be admitted to the Colleges of Medicine and Surgery after Jan. 1, 1899, must have at least a complete high school training. This is not all that could be desired, but it is a decided advance on the past. As the examinations will be conducted by the general faculty, the requirements will be strictly enforced. The results therefore will, I anticipate, be as satisfactory as those reached in institutions that seem to demand more for admission, but in which the requirements can in one way or another be practically evaded. The time for the new requirements to be enforced is placed far enough in the future to enable all persons desiring to enter the institution to make proper preparation before the standard is raised.

The course of study necessary for a degree in the College of Medicine and Surgery and in the College of Homeopathic Medicine and Surgery having been extended from three years to four years, it is very satisfactory to observe that the first class entering under the new arrangement was as large as its predecessors. There is a per-

ceptible improvement in the intellectual fitness of candidates for admission. The schedule of studies provided for the four years' course is richer and in every respect more satisfactory than the former one. It will now be possible to require very thorough work in the laboratories of medical sciences, and also to furnish the most abundant opportunities for practical clinical work. Fortunately the enlargement of our laboratory facilities has come at the same time as the extension of the course of study.

INCREASE IN THE CORPS OF INSTRUCTORS.

The faculty has been greatly strengthened by the addition of the following gentlemen to the teaching force:

F. F. Westbrook, Professor of Bacteriology and Pathology.
 Robert A. Wheaton, Clinical Instructor in Surgery.
 Herbert W. Davis, Clinical Instructor in Obstetrics.
 George L. Coon, Clinical Instructor in Genito-Urinary Diseases.
 John T. Rogers, Clinical Instructor in Pædology.
 Arthur J. Gillette, Clinical Instructor in Orthopædia.
 Burnside Foster, Clinical Instructor in Dermatology.
 George D. Head, Instructor in Pathology.
 J. E. Schadle, Clinical Instructor in Laryngology.
 H. C. Carol, Instructor in Chemistry.

Professor Westbrook has proved to be a very valuable addition to the faculty. He will meet all the requirements of his most important department of bacteriology, provided he is furnished with the necessary apparatus.

The corps of clinical instructors named as having been recently appointed are engaged in clinical work at St. Paul, thus giving to the students the benefit of clinical cases in that city as well as in Minneapolis. They are the most competent men in St. Paul in their respective specialties. The corps of clinical instructors in Minneapolis will need to be enlarged in the near future. The opportunities for clinical instruction afforded by the "Twin Cities" are abundant.

The College of Medicine and Surgery needs \$2,000 for books. Reference works for the primary chairs are especially needed; indeed the work cannot be done as it ought to be without these works; and there are very few of these works now at the command of the professors.

As showing the disposition of the faculty to require good and thorough work of all candidates for degrees, it is proper to say that of the fifty-seven candidates for the degree of M. D. at the last commencement, only forty-seven received the degree, and in the final term examinations nearly one-half of the two lower classes were conditioned. It is not an occasion for gratitude that such defective scholarship should exist, but it is an occasion for gratitude that stu-

dents showing such defective scholarship are not permitted to take their degrees.

I am glad to say that the College of Medicine and Surgery is at the present time in better condition, with ability to do better work, and with the promise of greater usefulness, than ever before.

COLLEGE OF HOMEOPATHIC MEDICINE AND SURGERY.

Since my last report the following changes have taken place in the College of Homeopathic Medicine and Surgery:

Prof. D. A. Strickler resigned the chair of ophthalmology, and Dr. F. M. Gibson was elected as his successor.

Prof. Asa S. Wilcox resigned the chair of diseases of women, and Dr. G. F. Roberts and Dr. M. P. Austin were elected as his successors, the former to do the didactic work.

Prof. S. E. Tenney resigned the chair of skin and genito-urinary diseases.

Prof. J. E. Sawyer resigned the chair of history and methodology of medicine, and Dr. T. J. Gray was elected as his successor.

Dr. R. R. Rome was promoted to the professorship of obstetrics, he having been adjunct-professor in charge.

The professorship of skin and genito-urinary diseases is vacant.

The chairs of principles and practice of surgery and of clinical and orthopædic surgery have been reinforced by the appointment of an additional member to each. Professors R. D. Matchan and T. J. Gray will hereafter teach the principles and practice of surgery, and Professors W. S. Briggs and M. P. Austin will teach clinical surgery and orthopædia.

The transfer of Prof. M. P. Austin left a vacancy in the chair of diseases of women, which was filled by the appointment of Dr. E. E. Austin.

The four years' course adopted a year ago went into effect on October 1st.

During the year just closed many operations were performed before the students by members of the faculty on the visiting staffs in the City Hospital, Minneapolis, and St. Luke's Hospital, St. Paul. Clinical lectures upon medical cases were also delivered.

It is worthy of note that all the students took an active part in the operations. In some cases they assisted and in others they performed the entire operation. At the medical clinics each student was required to make a careful examination under an instructor and suggest a diagnosis. The dispensary has provided the students with a large experience in treating cases. From May 1, 1895, to May 1.

1896, 1,474 in-door patients were treated and nearly 8,000 prescriptions were made. Members of the junior and senior classes likewise attended 612 out-door patients at their homes, under direction of members of the faculty.

The number of students in attendance at the college was greater than that of any previous year, except that of last year, when students entered who desired to finish their medical course in three years. Thirty-one students matriculated and were classified as follows: Eight seniors, thirteen juniors, two sophomores, and eight freshmen.

The work of the year just closed was the most satisfactory and encouraging in the history of the college.

The faculty has maintained during the past two years a dispensary at 1416 Washington avenue south, Minneapolis. This institution has been entirely supported by contributions from the members of the faculty. The faculty respectfully recommend that the board of regents make an appropriation for the maintenance of this very necessary part of the college work. There is great need of suitable charts and diagrams for illustrating lectures, and the faculty earnestly request that one hundred dollars be appropriated for the purchase of these.

COLLEGE OF DENTISTRY.

At the close of the year 1894-5 the dean of the College of Dentistry, W. Xavier Sudduth, resigned, and Thomas E. Weeks, professor of operative dentistry and dental anatomy in the college was elected dean. At the close of the year 1895-6 Charles M. Bailey, professor of prosthetic dentistry, metallurgy, and orthodontia, resigned his professorship. Dr. Bailey had been connected with the college during the whole period of its existence, had been a most faithful and efficient instructor, and his resignation was accepted with much regret. Frederick B. Kremer was elected professor of prosthetic dentistry and crown and bridge work in 1895, and entered upon his duties at the beginning of the year 1895-6. Thomas B. Hartzell was elected professor of comparative dental anatomy and physical diagnosis and oral surgery, July 3, 1896, and will enter upon his duties at the beginning of the year 1896-7. Dr. George S. Monson was at the same time elected to the chair vacated by Dr. Bailey, but he declined the appointment. No further appointment has yet been made, but the work of the chair has been provided for in a manner that is satisfactory for the present.

I take pleasure in saying that the administration of the college by Dean Weeks has been very satisfactory, and he has received a most

cordial support and coöperation from his associates on the faculty. The students entering this college have to a large extent received a high school education. The apparatus of the college has been increased the last year, and the college is in all respects in a prosperous condition.

COLLEGE OF PHARMACY.

Ample provision of rooms for the work of this college has been made in the new laboratory of medical sciences. The number of students in the college has not been large, the whole number in 1895-6 being thirty-three, of whom twelve were seniors, ten juniors, ten unclassified, and one special. It has been deemed wise to keep the standard of admission high, and as a consequence many persons who have applied for admission have been rejected because of their want of proper preparation for the work. Dean Wullung has been assisted in his work by Mr. R. O. Leubner, and by Mr. Francis Ramaley in botany and pharmacognosy.

THE LABORATORY OF MEDICAL SCIENCES.

Dr. Thomas G. Lee, professor of histology and embryology, who with Dr. Stewart planned this laboratory, and is now especially interested in the work to be done in it, has, at my request, furnished the following description of the building, and statements of what has been done, and what still needs to be done:

For over three years—October, 1892, January, 1896—the laboratories of histology, embryology, bacteriology, and pathology occupied less than one-third of a one-storied building 150x32 feet. The space was altogether insufficient from the beginning, and with the rapid growth of the various colleges in the medical department, the space became more inadequate each year. The classes had to be divided into so many sections that the amount of instruction given to each student was necessarily greatly diminished. Finally, notwithstanding all these makeshifts, students had to be turned away and refused admittance to classes; for the simple reason that each section was full and no more sections could be crowded into the week.

The congested condition of the laboratories of histology, pathology, etc., was duplicated in the laboratory of chemistry in the same building. The removal of the laboratories of histology, pathology, etc., would relieve chemistry, but a difficulty was found in the fact that the College of Pharmacy, which was not overcrowded like the others, occupied the middle of the building; so that to relieve chemistry, pharmacy must be moved out along with histology, pathology, etc.

The board of regents presented the matter to the legislature of 1894-5, asking for \$50,000, a close estimate on the cost of a building and very moderate equipment. Forty thousand dollars was granted. Early in June, 1895, ground was broken for the new laboratory.

The laboratory of physiology wished for more room than it had, and made request for certain space in the new building, which was granted.

The laboratory building was created, then, in consequence of the needs of the laboratories of histology and pathology. The College of Pharmacy was taken in to relieve chemistry, and physiology was given the space asked for to accommodate the needs of that laboratory.

The \$40,000 granted was insufficient to complete the whole building; the third floor is not yet finished, together with parts of the other floors.

Equipment is not yet provided, so that a further sum must be asked from the legislature of 1896-7.

The building was planned by Mr. F. G. Corser according to designs furnished by T. G. Lee and J. Clark Stewart. It consists of a cream brick three story and basement building, 75x150 feet, fronting on the boulevard on Pleasant street. The southeast quarter of the building is separated from the rest by a fire wall, and is occupied by the College of Pharmacy. It has its own entrance. Of the building proper the basement, which is about twelve feet high and well lighted, contains:

1. Animal room (Phys.), 29x44 feet, well lighted, and contains cages and aquaria for the animals, a crematory for burning refuse, sinks, etc.
2. Preparation room (Path. and Bact.), 18x24, not yet finished.
3. Special laboratory (Path. and Bact.), 24x44, not yet finished.
4. Preparation room (Hist. and Emby.), 18x24, partially fitted up.
5. Experimental and storage room (Hist. and Emby.), 26x30, not yet fitted up.
6. Toilet room, 15x17, partially fitted up.
7. Janitor's room, 15x17, partially fitted up.
8. General store room and unpacking room, contains crematory, needs sinks, etc., 21x44, not fitted up.
9. Work shop, needs lathe, tools, lockers, etc., 16x26, not fitted up.

FIRST FLOOR.

10. General laboratory (Hist. and Emby.) 44x70, partially fitted up.
11. Assistant's room (Hist. and Emby.), 15x17, partially fitted up.
12. Research laboratory (Hist. and Emby.), 18x38, partially fitted up.
13. Library, needs books, tables, etc., 17x18, not fitted up.
14. Professor's private office, 15x17, partially fitted up.
15. Special bacteriological laboratory and rooms of State Board of Health (Path. and Bact.), 30x44, not fitted up.

SECOND FLOOR.

16. General laboratory (Path. and Bact.), 44x70, partially fitted up.
17. Assistant's room (Path. and Bact.), 15x17, partially fitted up.
18. Professor's private laboratory (Path. and Bact.), 16x18, partially fitted up.
19. Professor's private room (Path. and Bact.), 15x18, partially fitted up.
20. Culture room (Path. and Bact.) 7x18, partially fitted up.
21. Private room of Dr. J. C. Stewart (Path. and Bact.), 16x18, partially fitted up.
22. Physiological demonstration room (Phys.), 17x22, partially fitted up.
23. Laboratory of experimental physiology (Phys.), partially fitted up.
24. Professor's private room (Phys.), partially fitted up.
25. Amphitheatre, needs lantern, etc., 31x44, partially fitted up.

THIRD FLOOR.—ENTIRELY INCOMPLETE.

26. Museum of Histology and Embryology, and Pathology and Bacteriology, 44x70, not finished.
27. Preparation room for museum (Path. and Bact.), 17x16, not finished.
28. Preparation room for museum (Hist. and Emby.), 18x32, not finished.
29. Photographic laboratory (Hist. and Emby.), 22x46, not finished.

There are needed for putting the above rooms into good working order at least the amounts stated below, and this is a very conservative estimate:

Room.	Department.	Cost.
1. Animal room.....	(Physiology.)	\$150
2. Preparation room.....	(Pathology.)	300
3. Special laboratory.....	(Pathology.)	300
4. Preparation room.....	(Histology.)	300
5. Experimental room.....	(Histology.)	300
6. Toilet room.....	.....	20
7. Janitor's room.....	.....	20
8. General store room.....	.....	25
9. Workshop .....	.....	150
10. General laboratory	(Histology.)	1,200
11. Assistant's room.....	(Histology.)	350
12. Research laboratory.....	(Histology.)	500
13. Library	(Histology.)	500
14. Private office.....	(Histology.)	100
16. General laboratory	(Pathology.)	1,200
17. Assistant's room.....	(Pathology.)	350
18 to 20.....	(Pathology.)	500
Books	(Pathology.)	500
21. Private room, Dr. Stewart.....	.....	100
22. Demonstration room.....	(Physiology.)	200
23. Laboratory	(Physiology.)	500
24. Private office	(Physiology.)	100
25. Amphitheatre .....	.....	500
26. Museum, fitting up, \$1,000; glassware, \$1,500.....	.....	2,500
27. Museum preparation room.....	(Pathology)	300
28. Museum preparation room.....	(Histology.)	300
29. Photographic laboratory.....	(Histology.)	500
Microscopes	(Histology.)	750
Microscopes	(Pathology.)	750
		<hr/> \$13,265

SUMMARY.

Pathology	\$4,200
Physiology	950
Histology	4,800
Building	3,215
<hr/>	
\$13,265	

This \$40,000 laboratory building, which is one of the largest on the campus, is at the same time the cheapest in proportion to its size, and may well serve as a model in a general way for securing the greatest amount of light and floor space for the least money. It has more available space than the \$80,000 physical and chemical laboratory, which is but very little larger. I know of no other laboratories for the same purposes in this country or in Europe with better light for microscopic work; and I have visited those which have cost \$100,000 and more. But what we do need and must have is money to fit up these laboratories, acting on the same conservative principle that I used in planning a large building for little money.

I have submitted estimates for some \$13,000. You will see that this sum is most moderate when you realize that that amount is much less than is expended in the laboratories of many of our leading institutions upon one subject. This sum will not supply all our needs for all time to come, but will allow us to make a beginning, so that we can make the University of Minnesota occupy the place she deserves in medical instruction.

We are so situated as to command an immense territory with railroads centering here. With increased facilities and a higher standard of entrance enforced we can draw the cream of the students of the Northwest, who now travel 1,500 to 2,000 miles away, to Johns Hopkins, Harvard, or Columbia to obtain that which we can give them at home.

Be it understood that even now with our relatively meager equipment we are ahead of many medical schools, abreast of others; but I feel that this state and its legislature wish the University of Minnesota to be the peer of the best in the land.

Dean Millard of the College of Medicine and Surgery fully concurs with Dr. Lee in his estimate of what is needed for the equipment of the laboratory of medical sciences. In addition to the \$13,000 for the laboratory \$2,000 are needed for the equipment of other parts of the college. The charges for tuition in the medical department having been raised, it is believed that hereafter the medical department will be self-supporting, as the law department has been almost from its organization.

CURRENT EXPENSES OF THE UNIVERSITY.

The university is conducted as economically as possible. Its expenditures are much less than those of many smaller institutions. But its expenditures are necessarily increasing from year to year, because the number of its students is increasing, and more teachers, more room, more apparatus, and more of every necessary provision for good work are needed. The resources of the institution are not equal to its necessary expenses, and there is no possibility of advancing till adequate provision shall be made. This is the most vitally necessary want of the university at present.

CYRUS NORTHROP,
President.

University of Minnesota, Dec. 1, 1896.

REPORT OF EXPERIMENT STATION.

ST. ANTHONY PARK.

St. Anthony Park, Dec. 22, 1896.

Hon. John S. Pillsbury, President of Board of Regents, Minneapolis, Minn.,

Dear Sir: I have the honor to present herewith the biennial report of the Experiment Station for the period beginning July 31, 1894, and ending July 31, 1896. Reports of the members of the station staff are appended. For details of the transactions and results of investigations of the Experiment Station I refer you to the annual report for 1895.

Respectfully submitted,

WM. M. LIGGETT,
Director.

REPORT OF DIRECTOR OF EXPERIMENT STATION.

The erection of a sheep barn, costing \$2,500, under an appropriation provided by the last legislature, is enabling us to conduct experiments in feeding and breeding of sheep. One thousand dollars was used to erect a central building for swine and to repair the old one, so that we have quite a comfortable swine house. Professor Shaw's report, appended, will give a brief outline of his work in the lines mentioned. The provisions for cattle feeding and breeding are quite inadequate. If we had an annual repair fund we could remodel the south wing of the barn to good advantage and repaint the entire barn, which has not been repainted since its completion twelve years ago. While great care has been taken to keep all the properties in good order, the necessary changes to be made, wear, tear and breakages, require a considerable amount of money during the year. A repair fund provided for such things will provide a business way to account for these expenditures without drawing on the current fund as we are now obliged to do.

The Experiment Station has confined its efforts at Coteau Farm to three or four lines of work. First, tillage experiments, including field plot tests of many ways of preparing the land and cultivating the soil to make the most of the too often meager rainfall, thorough moisture control work being conducted by frequent determinations of the soil moisture. Second, pasture and meadow experiments on arable and swamp lands. Third, forestry experiments, where varieties of trees are tested; also mixtures of trees suited to planting for prairie wind breaks. Superintendent Gregg, besides taking a great interest in the work of the Experiment Station, is also doing some experimental work with vegetables and fruits.

The farmers of the Red River Valley and of the northeastern or forested area of the state, while recognizing the value of the State Experiment Station, saw that to solve many questions peculiar to the climate, soils and other conditions of their respective sections, certain experiments must be conducted in the localities to be benefited by the results. Numerous things were mentioned as of special importance. To produce early varieties of wheat, oats or corn for the northern counties of the Red River valley the work of testing varieties and of breeding the best up to larger yields, could best be done in that locality. To find what kinds of fruits, vegetables, shrubs and trees are best for that locality and how they are best planted and cultivated in that windy, vigorous climate, the trials must be made well north in the valley. The soils, tillage,

weed eradication, drainage, road-making and other like questions need to be studied with special reference to the conditions of that locality.

In like manner, to benefit agriculture in Northeastern Minnesota, the farmers recognize their need of special information. How to cheaply clear the land and how to produce permanent pastures, or pasturage of summer crops on the sandy lands; how to clear the swamp lands of stumps and how to subdue the surface so as to make a soil suitable for meadow; what grasses to sow; what varieties of grains, vegetables and fruits are best to plant on the sandy, the clay and the immense areas of peaty soils, are all questions of wide interest, affecting large amounts of investment of money and labor. The entire state and even the entire Northwest, evinced an interest in proposed experiments looking to the reforesting of the cut-over forest lands and to the conservation and future management of those forests which must largely be depended upon if we are to have a permanently cheap supply of good lumber. Especial emphasis was placed upon experiments looking to the keeping up of the fertility of the large amount of light soils of this part of the state, and the importance in this connection of experiments and demonstrations in live stock and dairy husbandry. It was urged that in this part of the state the garden, poultry and other features of intensive agriculture should here be emphasized, and that much attention should be given to supplying the home markets, as the mining, the commercial and the manufacturing communities, with an abundance of home-grown products. The superintendent of such farms, if properly qualified to grow into the work, would form a center of thought regarding the fields, the gardens, the live stock and dairy interests, and of the great forest interests, which would eventually be of immeasurable benefit to the people locally and the state at large.

The Board of Regents recognized these claims and representations, but being without funds could do nothing without legislative action. The last session of the legislature, following the suggestions of Governor Nelson and others, passed an enactment authorizing the Board of Regents to procure on as good terms as possible, equip and establish two subexperiment farms; each farm to be not less than 320 acres. The sum of \$20,000 was provided for procuring and equipping and \$10,000 for the biennial period of 1895 and 1896, to be used in the management and conducting such experiments as the board might deem proper and of the greatest value to the state. The Board of Regents at their meeting, May 1, 1895, directed by resolution the agricultural committee of said board,

with power to act, to carry out the provisions of this enactment. The committee, in company with Professor Hays of the experiment station and by request of the citizens of Crookston and Polk county, visited that locality and carefully examined the country. The committee accepted the farm one mile north of the city of Crookston, being the north half and the southeast quarter of section 19, town 150, range 46, excepting the right of way on two railroad lines reserved by Mr. J. J. Hill, president of the Great Northern Railway Company, without money consideration, but that it should be used as contemplated by the above-mentioned enactment. The land is level and rather wet for farming purposes, though quite like much of the land in the Red River valley. This being the principal objection to accepting this land, the citizens of Polk county offered to construct a ditch in the southeast corner of the farm southward and westward, costing \$1,000; also, to pay \$1,000 in cash to be used toward drainage and road-making on and around said lands. The offer made by Mr. J. J. Hill was formally accepted and deed executed to the Board of Regents of the University of Minnesota the 21st of August, 1895, and submitted to Attorney General H. W. Childs for his examination and approval. He reported that he had examined the deed executed to the University of Minnesota by the St. Paul, Minneapolis & Manitoba Railway Company, and that the deed vested complete title in the University of the State of Minnesota to the property therein described, for the uses and purposes set forth in said deed.

Mr. T. A. Hoverstad was made assistant agriculturist and put in charge of the work at this subexperiment farm under the direction of the central office of the experiment station. Good substantial buildings have been erected, and the farm is very well equipped. Over 200 acres of prairie have been broken, and are now in excellent condition for cropping in 1897. The crops for 1896 were almost a failure on account of wet weather, but not unlike most of Polk county. Nearly 375 tons of excellent hay were cut and well stacked.

Considerable time was spent by some members of the committee in the location of the second subexperiment farm. Sauk Center, Wadena, Little Falls, Aitkin, Barnum, Carlton, Leech Lake, Staples, Cloquet, and Grand Rapids were visited. The soil at all points was carefully examined, and the conditions and circumstances were fully considered at a meeting held in the president's office of the university on April 16, 1896, with Regents Liggett, Pillsbury, Owen, and Barto present. The county of Itasca and owners of lands therein offered to donate about 450 acres of land, the university to

pay for the improvements on the so-called Herrig farm, consisting of the southeast quarter of section 15, and lot 6 of section 14, for the sum of \$3,500. After a full discussion of the entire situation, a motion was unanimously passed accepting from the county of Itasca a farm, consisting of the east half of section 15, range 25 west, town 55 north, lots 6, 7 and 8 in section 14; and from the firm of Morrison & Brown the north half of the northeast quarter of section 15. The last was offered directly to the station by the firm of Morrison & Brown. These deeds were furnished according to agreement and properly executed, except the one of Morrison & Brown, Mr. Morrison being absent in Europe. The examination was made by the attorney general and accepted as being satisfactory. Three thousand five hundred dollars was paid to Itasca county auditor July 2, 1896. The farm was put in charge of Warren W. Pendergast, assistant agriculturist. Contract was let for buildings now in construction, and considerable ditching and fencing has been done during the past season. The farm has been fairly equipped with stock and machinery. The work has been carried on very satisfactorily at both the stations.

The hearty thanks of the station are due to the following named railroads for transportation furnished in the transaction of the work at the various stations in the state and where it was necessary to visit and study other sections:

Great Northern; Northern Pacific; Eastern Minnesota; St. Paul & Duluth; Chicago, St. Paul, Minneapolis & Omaha; Minneapolis, St. Paul & Sault Ste. Marie; Chicago Great Western; Chicago, Milwaukee & St. Paul; Duluth & Winnipeg; Brainerd & Northern; Duluth, Missabe & Northern; Duluth & Iron Range; Minneapolis & St. Louis.

Some of the railroads have also given us special rates on freights, and have shown great appreciation of the work of the experiment station and the college of agriculture by furnishing many farmers transportation that they might visit University Farm.

The following regular and press bulletins and annual reports of the experiment station for 1894 and 1895 have been issued since the last biennial report was made:

- Press Bulletin No. 1, February, 1894.—Smut in Wheat.
- Press Bulletin No. 2, March, 1894.—Organizing Co-operative Creameries.
- Press Bulletin No. 3, March 5, 1895.—Smut in Wheat.
- Press Bulletin No. 4, July 9, 1895.—The Russian Thistle Law.
- Press Bulletin No. 5, Dec. 15, 1895.—Hog Cholera and Swine Plague.
- Bulletin No. 33, July, 1894.—The Russian Thistle.
- Bulletin No. 34, September, 1894.—The Chemical Development and Value of Red Clover; the Russian Thistle—Its Food Value and Draft upon the Soil.

Bulletin No. 35, October, 1894.—Dairy Herd Record for 1893; Cost of Butter Production in Winter; Comparing Prairie with Timothy Hay; Rearing Dairy Calves; Co-operative Creameries; Experiments in Sweet Curd Cheese.

Bulletin No. 36, November, 1894.—Miscellaneous Analyses of Feeding Stuffs; the Digestibility of Wheat.

Bulletin No. 37, December, 1894.—The Chinch Bug.

Bulletin No. 38, December, 1894.—Garden Tillage and Implements.

Bulletin No. 39, December, 1894.—Potatoes—Variety Tests, Blight and Internal Brown Rot; Tomatoes—Variety Tests, Training; Strawberries—Variety Tests; Apple Tree Sun-scald; Raspberries—Variety Tests, Cane Rust.

Bulletin No. 40, December, 1894.—Forage and Grain Crops—Varieties of Corn for Minnesota; Silage of Dent, Flint, Sweet and Southern Ensilage Corn Compared as Foods for Dairy Cows; Better Varieties of Corn by Breeding; Corn Cultivation; Wheats—Variety Tests, Varieties Selected for Propagation; Improving Wheats by Crossing and Selecting; Barley—Variety Tests; Flax—Variety Tests; Peas—Variety Tests; Millet—Variety Tests; Oats—Thickness of Seeding, Methods of Seeding, Rolling to Prevent Lodging; Succotash of Small Grains; Hay Production by Seeding Annual Crops; Tests of Grain Seeding Implements and Best Time of Planting Wheat and Oats; Time and Depth of Sowing Wheat, Oats, Barley and Flax; Field Management and Rotation of Crops; Smut in Wheat.

Bulletin No. 41.—Soils—The Essential Elements of Soil Fertility; Humus as a Factor of Soil Fertility; the Chemical and Mechanical Analyses of Soils; The Action of Organic and Mineral Acids Upon Soils; Comparison of Different Methods of Farming Upon the Conservation of Soil Fertility.

Bulletin No. 42.—Composition, Digestibility and Food Value of Potatoes.

Bulletin No. 43.—Insects Injurious in 1895.

Bulletin No. 44.—Fattening Steers in Winter; Fattening Lambs in Winter.

Bulletin No. 45.—Potatoes—Variety Tests; Treatment for Potato Scab and Blight; Internal Brown Rot. Tomatoes—Variety Tests; Treatment for Rot; Small Fruits—Variety Tests; Spray Pumps, A New Form of and a Strainer for.

Bulletin No. 46.—Forage and Grain Crops; Cross Rotation Experiments; Smut in Wheat; Three Annual Weeds; Tillage Experiments; Meteorological Records.

Annual Report for 1894.—Containing Bulletins 33 to 40 inclusive.

Annual Report for 1895.—Containing Bulletins 41 to 46 inclusive, and a meteorological record at various points in the state for 1895 and averages for a series of years.

The two sites chosen for experiment farms already show their adaptability for the purpose intended, and have been laid out so as to be not only most useful but very attractive in appearance when the proposed improvements are fully completed.

The farmers in the localities of the two stations are taking great interest in the work, and will be enthusiastic supporters if a sufficient annual appropriation is made to carry on these stations in a practical manner in the future.

Especial attention is called to the appended reports of the several divisions relative to the work since the last biennial report, what is on hand and suggestions as to what they should carry out in future.

WM. M. LIGGETT,
Director.

DIVISION OF AGRICULTURE.

The work along the lines of farm, field and crop improvement, cultivation and management has been much extended, systematized and made more practical, both from the standpoint of demonstrating what good farming is and from the standpoint of experimenting to find still better things. Many of the difficulties of field experimentation are being overcome by the introduction of new methods, and good farming. Nice care of well arranged buildings, fences and roads makes the work far more attractive and emphatic to the many visitors who come to see and to learn, and to the students of the department. On the whole, the work in these lines has been more successful than ever before.

The subdivision of fields at University Farm by roadways into permanent series, these to be subdivided into plots as needed, has made it possible to present an attractive sight to the numerous farmers who visit the farm. This arrangement of fields has also made it possible to so arrange a system of note taking that Mr. Andrew Boss, with the help of advanced students, carries out the experiment work in a most expeditious and accurate manner. The equipment of farm machinery needed in experiment work is now fairly complete, and with the same cost the amount of plot experimentation which can be conducted is largely increased over that which it was possible to carry out a few years ago. The subexperiment farms have largely increased the possibilities of working along these lines, and especially of studying many questions interesting to the several parts of the state, and they are being developed into most useful experiment and demonstration farms.

The experiments in the study of field management have progressed satisfactorily. The central feature of these experiments is the system of forty-four plots, each to run twenty years, more or less, under a distinct rotation of crops or method of farming. During 1895 and 1896 the crops on these plots were good and the figures and notes gathered regarding yields, weediness, etc., are valuable, and this rotation experiment promises important results. Similar experiments are being planned for the Northeast and Northwest farms. At University Farm the experiments in cross rotation of crops to see in which order the crops of the rotation should follow each other has already yielded some valuable facts. Another line of work begun in part to discover new and better methods of experimenting with the pastures and meadows in the rotations, has also yielded useful facts, and progress in the methods of experiment-

ing on this subject seems assured. At each of the four farms several cattle have been used on pastures of various kinds. Animals are confined to the plots by tethering, that definite yields may be secured in regard to the number of days that each kind of pasturage will supply food to an animal and the gain in pounds of live weight which may be secured per acre from each kind of pasture. It seems clear that the acreage of our pasturage for cattle may be largely decreased with the aid of small pastures of corn and other annual pasture crops to be turned upon in midsummer, and that stock will do better and the total profits of the fields as well as of the stock will be increased. The new grass, Hungarian Brome grass (*Bromus inermis*), seems to have passed the experimental stage, and the farmers are recommended to buy enough seed from which to rapidly grow their own seed, which is now expensive. Tests of the most promising varieties of grasses, clovers and other forage plants alone and in meadow and pasture mixtures are being tested on each of the four farms on as many varieties of soil as seem practical. Not of the least importance in the study of questions of field management is the work of collecting statistics of the farm values of crops, live stock products, farm labor and rental values of land. These are proving of especial use in the study of the rotation of crops and in connection with some work in the other divisions of the station.

The testing of new varieties of grain and forage crops, the production of new varieties by breeding and the study of the principles of breeding as applied to field crops, are progressing and promise substantial results in the way of better seeds for our farmers and a better knowledge of the principles of breeding for those who would continue the improvement of our greatest wealth-producing plants. A variety of corn, by name "University No. 13," was the first to be sent out as a practical result of these experiments. This corn is a yellow dent and suited to the southern one-third of the state, from St. Cloud southward. A few hundred bushels have been sold in lots of several or a few bushels, and in nearly all instances most excellent results are reported. In improving this variety large yields of good corn was the one quality mainly sought. A new variety of wheat was planted at Crookston in sufficient quantity, so that a few bushels might have been sold to each of several farmers in every county of the state, but the very wet season at Crookston, where the wheat was planted, resulted in the loss of the crop. Next season we hope that two or more of these best wheats and one or two kinds of oats can be grown in quantity for dissemination to the farmers in the spring of 1898. The study of methods of breeding

has extended to all our important grain, forage and root crops, and new varieties of most of them are being produced by selection, or by crossing followed by rigid selection.

Methods of planting, cultivating and harvesting all the important crops of the farm are being studied. Especial attention is being given the best methods of handling the field to conserve soil moisture in seasons lacking ample rainfall. Not only are those crops sought which will best resist drouth, but an effort is made to find the best combination of crops or system of rotation which will be most profitable under drouthy conditions, as of dry climate or light soil, or of the two combined, and studies are made of how best to get the rainfall into the soil for each crop and then how best to conserve it there by proper methods of tillage. The work in this line at Coteau Farm (the home and homestead of O. C. Gregg, superintendent of the State Farmers' Institutes), is progressing most satisfactorily. New methods for analyzing the soil for moisture are being introduced, and an electrical method may prove practical, making it possible to do very much more work than at present. Mr. Wm. G. Smith, who has this work in charge, is spending the winter at the University of Wisconsin with Prof. F. H. King, and at Washington, D. C., in the Department of Agriculture with Professor Milton Whitney, studying this subject. The new experiment farm of 450 acres at Crookston, under the immediate superintendence of T. A. Hoverstad, assistant in agriculture, has been laid out on a permanent plan. Roads and drains have been constructed, a good barn, a boarding house, a shop and pasture fences have been erected, and some general and ornamental plantations of trees have been started. Portions have been set apart for experiments in forestry, to be conducted by the experiment station and by the national department of agriculture. The farm has been equipped with work horses and some other stock, and about 200 acres of land were broken, but owing to the very wet season in 1896 very little of the crop was raised and not much was accomplished in experiment field work. The farm has now been drained and the fields are in excellent condition for work next season. Few, if any, experiment farms in America are naturally better adapted for field experiments than our Northwest Experiment Farm. It is very typical in soil, drainage, etc., of most of the so-called Red River valley, and this farm will become a very pretty as well as useful place. Being so far north, it is an excellent place for the production of varieties of grain and other crops suited for the north half of Minnesota.

The other new experiment farm at Grand Rapids, presided over by Warren W. Pendergast, assistant in agriculture, was not se-

cured until in the late spring of 1896. Sixty acres had been cleared and cultivated by the former owner, and during 1896 forty-eight acres more were cleared, making a total of 108 acres under cultivation, the remainder of the 453 acres being forest or cut-over forest lands. The farm has in part been laid out according to a plan which will be perfected another season and will include lands set aside for forest experiments by the station and by the national department of agriculture. Some roads, drains and fences have been constructed, and the barn and house already on the farm have been enlarged into more commodious structures. Work horses and some other stock have been placed on the farm, and it has been partially equipped with farm machinery. The season of 1896 was fairly favorable to the production of crops and to securing good results in field experiments; and in spite of the late date in getting title to the land, numerous plot tests were made and valuable data obtained. This farm possesses numerous soils and conditions typical of the many phases of the country in Northeastern Minnesota which it is to serve. Its geographical location, as well as its many conditions of soil, renders its possible usefulness very great. The completion and elaboration of present plans will make of this one of the prettiest, as well as one of the most useful experiment farms in the country.

Planning farms, irrigation, drainage, road making, the erection of fences and farm buildings and other lines of agricultural engineering are developed at all the experiment farms, not only for object lessons to students and farmers but for the experimental results which may be obtained. The young men who attend the School of Agriculture and the College of Agriculture courses are mainly employed in doing the work in experiments. They make unusually good help, and they in turn receive, besides ordinary farm labor wages, much in the way of instruction and experience in conducting experiment work and in farming generally.

WILLET M. HAYS,
Agriculturist.

DIVISION OF HORTICULTURE.

During the biennial period ending Dec. 31, 1896, there has been a quite general advance in the interest taken in horticulture in this state and in the work of the division. The duty of teaching in the School of Agriculture, always an enjoyable one, has been made more pleasant by the very superior class of students that have entered in the latter part of the biennial period herewith covered. The summer school for girls is fast becoming a very important feature of the agricultural department, and the instruction in horticulture in this course seems to meet with a cordial support from the students.

The increasing interest now taken in horticultural studies and large classes make it imperative that we have better quarters for this work. The present class room and greenhouse facilities are much too limited for the best instruction. . . This matter should receive your early consideration.

The favorable reception that has been accorded by the public to my book, entitled "Amateur Fruit Growing," published in 1894, and especially the great help it has been as a text-book, has encouraged me in getting out a similar book, entitled "Vegetable Gardening." This is now nearly through the press, and will serve as a text-book in our School of Agriculture. It consists largely of the material which has been supplied the class in vegetable gardening in a mimeographed form for several years, and other supplementary matter. I think it will make the teaching of this subject more efficient.

The experiment work seems to be on a better basis than ever before, and the collection of fruit trees and plants, the nursery and forest plantation, the garden and our collection of implements are all in excellent condition and call forth favorable comments from visitors.

Important permanent improvements have been made in the landscape work in the vicinity of the new dining hall, and about 900 linear feet of the best artificial stone sidewalk and about 300 linear feet of hard brick sidewalk have been laid and the old walks repaired in various parts of the campus.

Respectfully submitted,

SAMUEL B. GREEN,

Horticulturist.

DIVISION OF ENTOMOLOGY AND BOTANY.

In Bulletin No. 43 some of the work performed by the entomologist has been given, but other experiments, not finished at the time, are given in Bulletin No. 48, now in the hands of the printer. The entomologist having received from the state a liberal appropriation for the destruction of noxious insects, was enabled to equip a laboratory and engage a trained assistant; he was also enabled to have numerous illustrations made, and on that account the bulletins published are larger and better illustrated than usual. They were also published as annual reports, and mailed as such to the members of the legislature, schools and libraries. Bulletin No. 43 contains full accounts of the insects injurious in 1895; the history of the chinch bug is given in detail, and it is shown that 14,877 boxes of a disease known to be fatal to that injurious insect were distributed in that year, in many cases with very marked success, as indicated by letters received. This disease is described in detail, as well as other bacterial diseases that may, in future, be utilized to keep in check certain injurious insects. As two species of migratory locusts or grasshoppers were exceedingly numerous near Taylor's Falls, and threatened the whole state if not combatted, the entomologist and his assistant devoted considerable time to inaugurating a war against them, the state paying the necessary expenses. The work done by 230 hopperdozers soon showed that local invasions by such dangerous locusts can be overcome with concerted action, and it was shown again that crops can be saved in this manner, and what is even more important, locusts can be prevented from spreading all over the state by timely and well-directed action. Bulletin No. 43 also discusses remedies for potato beetles, blister beetles, cabbage insects, saw flies, currant insects, lepidopterous borers, the leaf-roller of the box-elder and apple trees, the sweet corn moth, parsley butterfly, box-elder bug, bean fly, wheat-stem maggot, hessian fly, plant lice and scale insects; a chapter on insecticides and their application is also given. All articles in this bulletin of over 150 pages are well illustrated.

The Bulletin No. 48, which is now being printed, contains full descriptions of the insects injurious in 1896. During the year 1,233 farmers received disease spores and according to their replies, applied them with more or less good results. At present this insect is no longer the injurious insect it was in 1894, and most portions of the state are free from it. The frit fly, wheat-stem maggot, and the hessian fly, insects all very destructive to our small grains, have

been studied and the remedies and results are given. It is shown that the latter insect, which at one time was very threatening to our crops, even more so than the chinch bug, has been more than decimated by parasites, and if the remedy proposed in the bulletin is carried out there is no danger for the future. The common army worm, erratic army worm, white grubs, hairy rose beetle, domestic cricket, leaf hoppers and other injurious insects are fully described and illustrated, and the proper remedies are given to destroy them. The history of two injurious plum insects is also given. Special attention has been given to the "parasites of man and domesticated animals," and all species found in Minnesota have been described and illustrated. This part of the bulletin can be used as a text-book in the school and college of agriculture.

In botany a number of experiments were made in 1895 and 1896 with foreign grasses and forage plants. At the present time the botanist is making experiments with ten species or subspecies of so-called bacteria found in the tubercles on the roots of red, white and scarlet clover, lupine, flat-pea, peas, lucerne, horse-bean, and vetches, with the view of obtaining pure cultures and to introduce them in regions where the hosts did not thrive on account of the absence of these underground associates.

In both entomological divisions the correspondence has grown to such an extent that a very large portion of the time is required to answer letters.

The museum, which contains beside botanical and entomological specimens already a very fair collection of the animals and birds of Minnesota, is growing very rapidly and forms quite an attraction to student and visitors.

Yours, very respectfully,

OTTO LUGGER,
Entomologist and Botanist.

DIVISION OF AGRICULTURAL CHEMISTRY.

I have the honor to submit herewith a report of this division for the biennial period ending July 31, 1896.

PUBLICATIONS.

Five bulletins have been published by this department during the last biennial period, as follows:

Bulletin No. 34.—The Chemical Development and Value of Red Clover. The Russian Thistle—Its Food Value and Draft Upon the Soil. (28 pages.)

Bulletin No. 36.—Miscellaneous Analyses of Feeding Stuffs. The Digestibility of Wheat. (28 pages.)

Bulletin No. 41.—Soils—The Essential Elements of Soil Fertility; Humus as a Factor of Soil Fertility. The Chemical and Mechanical Analyses of Soils. The Action of Organic and Mineral Acids Upon Soils. Comparison of Different Methods of Farming Upon the Conservation of Soil Fertility. (80 pages.)

Bulletin No. 42.—The Composition, Digestibility and Food Value of Potatoes. (16 pages.)

Bulletin No. 47.—Flax—The Draft of Flax Upon the Soil and the Composition of Flax Soils; The Feeding Value of Flax Products. (32 pages.)

In addition to the bulletins I have also prepared for the United State Department of Agriculture an article entitled, "Humus in Its Relations to Soil Fertility," published in the Year Book of 1896. A text-book, for use in our School of Agriculture, entitled, "The Chemistry of Dairying," is now in press.

WORK IN PROGRESS.

Soils.—The soil investigations form a prominent feature of the laboratory work. The factors which influence soil exhaustion and soil improvement are being studied, such as continuous cropping to one line of crops, the effects of manures in permanently improving soils, rotation of crops, and the study of soil types and conditions best suited to the growth of the different farm crops; a study of some one crop being made each year, as flax in 1895, and corn in 1896. It is the aim in this work to consider natural methods of soil improvement rather than artificial methods, such as the extensive use of artificial fertilizers. A number of analyses have been made of soils from different parts of the state, particularly from the farms of our students of the School of Agriculture. The size of the soil particles have been determined, and a study of their relation to soil cultivation and to the water supply of crops has been begun. One of the most promising features of the soil work has been the study of the action of manures upon soils, particularly the action of stable manure in producing humus and humates, thereby rendering the inert stores of the plant food in the soil more available. The medal

and diploma awarded to our station by the World's Fair Commission for our soil exhibit and soil work has been received.

Food Investigations.—Another line of work in progress is the investigation of human and animal foods. In this work we have been aided by, and have carried on some of the investigations in coöperation with, the United States Department of Agriculture. In 1895 we were authorized to make investigations relating to the losses in the cooking and preparation of vegetables. The present year we are authorized to make investigations relating to the value of wheat and its milled products. Human digestion experiments have been made, determining the digestibility of potatoes, eggs, and bread. After carrying this work a little farther, a bulletin relating to the composition and comparative value of our human foods will be published. The composition of animal foods has been studied mainly in connection with the feeding experiments of the other divisions of the station. The unique value of skim milk and whey in the feeding of pigs has been investigated along with the digestion experiments which have been made and published.

Miscellaneous Investigations.—In addition to the two main lines of work, soils and foods, other matters have received attention. The question of sugar beets, the adaptability of Minnesota soil and climate to their culture, has been continued, from year to year, for the past eight years. It is believed that the station has demonstrated that sugar beets of a high content of sugar and purity of juice can be raised in Minnesota; the average of 1,079 samples of beets grown in every part of the state show an average of over fourteen per cent sugar and a purity of over eighty per cent. It is now a question, will it pay to make sugar from sugar beets, and not a question as to whether we can raise sugar beets. The analyses of air from barns and stables have been made where different systems of ventilation are in use, the object being to determine the system of ventilation which gives the warmest and purest air. Numerous analyses have been made for other divisions, including milk, skim milk, and cheese, food stuffs, insecticides, etc. Miscellaneous samples of agricultural products received from the farmers of the state have also been made, free of cost.

Needs of the Laboratory.—The laboratory equipment, which is in many respects of the best, could with advantage be added to, in the way of apparatus for determining the heat-producing value of foods. The same apparatus could likewise be used to determine the relative value of fuels. An electric plant at the station would be a great gain to the laboratory, because many of the quantitative determina-

tions could then be made by electrolytic methods with a saving of both time and expense. The division is also in great need of reference books and journals relating to agricultural chemistry, so as to be able to take advantage of all similar work that may have been done along each of the several lines of investigations.

Very respectfully,

HARRY SNYDER,
Chemist.

DIVISION OF VETERINARY MEDICINE.

The work in this division is necessarily varied by reason of the present plan of handling contagious diseases of domestic animals in this state. Correspondence with farmers and health officers has occupied much time during the past two years. It has been thought best to devote considerable time to this work, in view of the fact, that there has been an unusual prevalence of disease among the live stock and the farmers seemed to greatly need the help that could be given them in this way.

Among the infectious diseases that have caused severe loss and great anxiety among stockmen were hog cholera and swine plague among the hogs, and tuberculosis and black leg among the cattle. Sheep have been unusually healthy, no serious outbreaks having been reported. Among the horses, anthrax has been reported and diagnosis confirmed by microscopic examination. Among all domestic animals except the hogs, non-infectious and usually preventable diseases have caused much greater loss than the contagious. Parturient apoplexy has been seriously prevalent among the high type dairy cows.

Abortion was not so prevalent in 1896 as during the years 1893-4-5. Azoturia has been unusually prevalent among horses in all parts of the state, and this, like parturient apoplexy (milk fever), is a disease that ought to occur but rarely.

Probably the most serious diseases of domestic animals in Minnesota during the past two years were hog cholera and swine plague. Both have prevailed in various portions of the state, and have undoubtedly been constantly extending over wider areas during this period. This has become a most serious matter, and should have the careful consideration of every one who is at all interested in the stock interests of Minnesota.

Two bulletins have been issued by this division during the biennial period just closed—one on azoturia, which disease has been seriously prevalent among horses and is easily preventable; the other on hog cholera and swine plague, dealing in as plain and simple way as possible with the following topics: *Symptoms; post mortem conditions; diagnosis as between the two; what to do when an outbreak occurs; mistakes commonly made by farmers; treatment; how to disinfect and clean up.*

The tuberculin experiment has been finished and will probably be ready for the printer in January.

Two years ago this division reported the beginning of a series of cathartic experiments in an effort to obtain a more nearly ideal hypodermic cathartic, using eserine as a basis. I am pleased to report that the series, then planned, has been completed, numbering in all sixty-two experiments. Careful records have been kept and will be published during the coming year. The original experiment has been extended so as to include barium chloride, both by intravenous method and per mouth. Thirty-five experiments with this drug have been completed, which closes the study of barium as planned.* The results of this study will be published with the eserine experiment. At present this division is carrying out a series of cathartic experiments with aloes and aloes and calomel, of which thirteen have been completed, and the experiment is nearly finished.

A series of experiments with linseed oil alone, and another with linseed and croton oils combined, has been started and will probably be completed during the coming summer.

Twenty-three horses have been used in these experiments and very full data taken. It is therefore hoped that the various items have been repeated a sufficient number of times so that the results may be accepted as accurate.

In the last biennial report reference was made to a proposed study of the prevalence of tuberculosis among the cattle of the state. Up to date 1,150 tests have been made by the station, of which about 16.5 per cent were found to be tuberculous; seventy-five head were post mortemed, and all but one found to be tuberculous. I have received the reports of 1,625 head tested by others, of which 100, or six per cent, were tuberculous. Putting these together the reports show a total of 2,775 tests and 9.1 per cent tuberculous.

*Note.—Barium, as used for this purpose, came into prominence since the original cathartic experiment was planned.

These figures must not be taken as fairly representative of the prevalence of this disease throughout the state, for a large portion of these tests were of either highly bred cattle in breeding herds or of city dairy herds. Native cattle kept under ordinary farm conditions are less prone to the disease, and actual tests made elsewhere prove tuberculosis to be less common among these cattle.

I am pleased to report that the United States Veterinary Medical Association at Des Moines in 1895 and again at Buffalo in 1896, most heartily and fully indorsed, in resolutions, tuberculin as accurate and thoroughly satisfactory.

Reference was made in the last biennial report to an experiment with tuberculin on eight head of tuberculous cattle, which had been started the previous fall. This number was afterwards increased to twelve. The purpose of this experiment was to study the therapeutical value of tuberculin; to study its effects on tuberculous cattle and also upon sound cattle when given in repeated and large doses; to obtain data upon which to base an estimate as to the diagnostic value of subsequent tests, and to learn whether an animal may quit reacting after several doses of tuberculin and still remain tuberculous.

I am pleased to report the completion of this experiment, and that this division of station work hopes to give answers to these questions and perhaps add something of value to the discussion of a very serious problem.

It is very evident that no difference what plan be taken to reduce the prevalence of tuberculosis among cattle, the immediate financial loss must be great. A breeding experiment was undertaken in the spring of 1895 to see if something might not be done to lessen the loss. It is now accepted by the medical profession that diseases are rarely inherited, further than an unusual predisposition or susceptibility. The breeding experiment referred to was undertaken to study the problem whether it might be practical, under certain defined conditions, to use valuable cows for breeding purposes, even though they have been pronounced tuberculous. It is evident that this can be of but limited application, even though it be demonstrated possible; but any idea or plan that promises to lessen the loss that seems inevitable is important. I am greatly pleased that, at the end of two years' work in this experiment, the outlook is fairly bright. There will soon be on file in this division the data concerning about thirty-seven calves from tuberculous mothers, of which only three have been pronounced tu-

berculous, and one was allowed the mother's milk for a long time after birth, contrary to the general plan of the experiment, which was to remove the calves from the mothers immediately after birth and then rear them on the milk of sound cows, previously tested, or else on the mother's milk after sterilizing by heat.

Most of the original cows are still in this experiment—a few having been killed. We have now records of one crop of calves that will be two years old in the spring; others that were one year old last fall; others that will be one year old in the spring, and some last fall calves. This experiment will be continued at least another year, perhaps several years, before it is finally reported.

It is now quite too early to make positive statement as to results, but the outlook is quite encouraging and to the effect that cows which would be valuable for their breeding that are pronounced tuberculous, but are still in mature life and in good physical condition, may be used practically and profitably for the rearing of one or several crops of calves.

Such cows must in every case be kept rigidly apart from sound ones. The calves reared under this experiment have grown nicely, and the expense and bother has not been such as to make it seem impractical.

As to proposed work for the new biennial period just beginning, I will say that the cathartic experiment with aloes and the oils will be completed; the breeding experiment with tuberculous cows will be carried on and enlarged as the material increases.

A bulletin on the tuberculin experiment will be ready for the printer in January if all goes well.

This division has made arrangements with the Pasteur Vaccine Company for the exclusive control of black leg and anthrax vaccines and tetanus anti-toxine in this state, and also to handle their imported tuberculin and mallein. The experimental stage for all of these has now passed, and they may be regarded as having been accepted by the profession as valuable. This is undertaken as a station matter and for the convenience and benefit of veterinarians and stockmen. A small stock of these goods will be kept on hand and their introduction urged in the state during the next two years; and when they are well introduced, the station will discontinue handling them and turn them over to the drug trade and private practitioners. A small per cent above cost will be charged to insure the station against loss. The government tuberculin and mallein cannot be easily obtained and are not for general distribution. I have frequent requests to supply practitioners with them,

but have no right to do so,—either to give away or sell them,—and have thought best to keep some of the commercial articles on hand to supply this need.

Very respectfully,

M. H. REYNOLDS,

Veterinarian.

DIVISION OF DAIRYING.

The work of this division during the past four years has been chiefly directed towards the solving of problems bearing on the cost of milk and butter production. The primary object at first was to get a general idea as to what might be considered a fair yield of milk and butter from the different breeds under Minnesota conditions and the average annual cost of feed. The result of the first year's work was in a measure lost for want of proper record of the feeding operations carried on in the barn, but the records of the daily yield of milk of each cow at each milking with the per cent of fat content furnished very valuable data. The fair measure of success which has been obtained by the last four years' work is largely due to the careful weighing of each milking and testing its fat content. The results obtained from day to day and the variations noted as between the yields of different cows stimulated closer investigation as to causes.

The line of work prosecuted during the year 1893 and the winter of 1893-94, and published in Bulletin No. 35, has been continued up to the present time, and the accumulated data is being compiled and arranged for publication. The work thus far done has accomplished much in pointing out the style or type of cow that gives the best return in the dairy, but there are many minor details that need further investigation before fixed and duly verified laws can be formulated governing animal nutrition. To complete this work in a manner so that it will be accepted as absolute authority, it must be supplemented by more work in the line of food of support and the rearing of young animals of the various types and working them in the dairy a number of years, carefully weighing all food consumed, growth made and dairy products yielded, preserving photographs of each, taken each year from calfhood. By this

method can be demonstrated the style of calf that should be bred for the special dairy cow and the style best adapted for both meat and milk; how much feed is required for food of maintenance per 100 pounds, live weight, and the amount of digestible nutrients required to produce a pound of butter or a pound of growth.

The results thus far obtained with the combined milking and meat producing cows are not satisfactory, as they show a greater discrepancy in the cost of butter between this type and that of the special dairy type than seems possible, and further experiments should be made with cows combining milking and flesh-producing qualities. Thus far the results obtained in the cost of dairy products as between the large and small cow are so marked that further work should be done before definite conclusions are formulated.

Careful experiments have been made incidentally during the past three winters in comparing timothy with upland prairie, second and first bottom or sedge hay for dairy cows and calves, with gratifying results as to the wild grasses.

During the winter of 1895-96 comparison was made between feeding grain separate and feeding it mixed with roughage; the result has not yet been compiled, but will be in time for the next bulletin.

The remarkable ability of some of the cows in the station herd during the past five years to make large returns for the food consumed while others under similar care and conditions produce a much smaller return suggested the idea of making a careful post mortem examination of the circulatory and nervous systems of several cows, and considerable valuable information has thus been obtained.

The experiments in progress at the present time are a comparison between the relative cost of meat and milk production, comparing the food value of bran and corn meal, fodder corn, planted in hills and drills, and seeded thick and thin; food of maintenance of cows weighing 800 pounds and 1,000 pounds; rearing heifers on roughage; and calves on separator skim milk, flax meal and mixed timothy and clover hay.

In the dairy hall no experiments are being conducted at present, save incidental microscopic and bacteriological examinations being made of the milk of each cow three times per week, with a view of obtaining some data greatly needed for our college work, and studying the advisability of conducting some experiments along this line in the future.

No extra expense of any account is incurred in this preliminary work, and the apparatus required is simple and inexpensive. Our

work during the past four years has shown that in order to have absolute uniformity in making tests of milk for per cent of fat and other solids, it is necessary to have the work done by the same person, as the least variation in reading the test bottles, lactometers, etc., will nullify the careful work done in the barn.

During the year there has been an unusual demand for dairy meetings, and in response to this some sixty meetings have been held in various portions of the state, transportation being furnished in every case by the railway companies, and for about half the meetings the railway companies engaged the lecture rooms, printed and distributed posters, paid hotel bills and other expenses. No university funds were used in defraying expenses.

No new experiments are mapped out for the coming year, as all the time will be required to complete the dairy records, compiling tables and formulating results obtained since the publication of Bulletin No. 35, for the forthcoming bulletin.

There are now two yearlings and a few calves that will serve as a nucleus for a new herd, and as these are all of the dairy type it is suggested that twelve others be secured, representing other types and breeds, to the end that the future herd may be as fair a representative of the different types and breeds as was the one comprising the station herd in the past. This would make it possible to continue the type work, and to formulate rules so definite and conclusive that they would receive that recognition to which original and exhaustive work is entitled.

T. L. HAECKER,
Division of Dairying.

DIVISION OF ANIMAL HUSBANDRY.

The work in this department has been one of gradual extension. A new and commodious sheep barn has been erected since the previous report was issued. It has accommodation for 100 sheep under experiment, and also for several small flocks of breeding ewes of the various pure breeds, such as it may be deemed advisable to keep for illustration in the lecture room and also for experimental uses.

The old piggeries have been removed to a more suitable location, and they have been remodeled somewhat to meet the increased requirements. In the remodeled form the piggery will furnish ac-

• commodation for several breeds of swine, and also for a limited amount of experimental work. But more ample accommodation in this department could be turned to excellent account.

In the beef department but little progress has been made, except in experimental feeding; owing, first, to want of room in the stables, and, second, to the lack of pasture lands for grazing. This department is represented only by Shorthorns and Herefords in the pure form, and the absence of representatives of some of the other breeds has been sorely felt in the lecture room.

Experiments in Sheep Husbandry.—Various experiments have been conducted in feeding sheep for the block and in pasturing them on forage crops. In feeding for the block three experiments have been conducted, comprising in all 150 animals. The chief of the objects sought were, to ascertain (1) the relative value of the more common of the foods grown in the country for feeding sheep; (2) the extent of the shelter necessary to the most profitable feeding; and (3) the profits arising from feeding sheep. The experiments in pasturing forage crops were carried on through the whole of the season of pasturage in 1895 and 1896. The chief of the objects sought in these experiments were to ascertain (1) the most suitable forage crops to sow with a view to supplement grass pastures, more especially after these have become dry; (2) the succession in which these crops should be grown, and also the most suitable ways of combining them in growth; (3) the methods of pasturing them off to the best advantage; and (4) the influence of such a system on weed destruction, on fertility as shown in succeeding crops, and on securing a stand of clovers and grasses from seeds sown on such pastures. In 1895 three acres of land were devoted to this use, and fifty-three head of sheep and lambs were pastured about three months on the same. In 1896, ten acres of land were thus pastured, and eighty-six head of sheep and lambs were sustained on the ten acres from spring until autumn. In addition to the pasture more than nine tons of hay fodder were taken from the same land. An experiment is also being conducted in changing the breeding habit in grade ewes so that they will drop lambs in the autumn. This experiment will of necessity have to cover several years. If more land could be placed at the service of this department, valuable experiments could be conducted in growing winter fodders for sheep. In this field but little has yet been done hitherto, nor can our department enter it without more land.

Experiments in Swine Husbandry.—The experiments in swine husbandry have not been very extensive, owing (1) to the unsuitable character of the buildings for the work before they were remodeled, and (2) to the disturbance of the remodeling period. Since the changes were made in the buildings, experiments have been conducted (1) in testing the value of the improved Yorkshire cross in growing grades from various breeds; (2) in the cost of growing swine; and (3) in the feeding of corn as against barley. As soon as there is room for it, experiments in growing summer pastures for swine will be taken up.

Experiments in the Beef Department.—In the beef department experiments have been conducted in feeding for the block, and in growing beef for the same. The objects sought by the former included the following: (1) Ascertaining the comparative value of the common food products of the state for fattening cattle; (2) the comparative merits of slow and rapid feeding; and (3) the profits that may be made from winter feeding. The value of a heavy ration consisting chiefly of oilmeal and corn was also tested. The experiments in growing beef began with the animal at birth. They take into the account the cost of the food, the relative increase and the total increase in live weight, and finally the profits.

Disposal of the Live Stock.—In this department much of the meat used on the tables in the dining-room has been fattened; and a considerable percentage of the same has also been grown. A goodly number of breeding animals have also been sold and shipped to various purchasers in the state, and the finished animals put upon the market have always brought top prices.

Lectures.—In the lecture room 110 lectures are given on the study of breeds, on animal breeding, and on the management and feeding of animals from birth to maturity; and in addition to the above, practical lectures are given every Monday during the school year on the comparison of breeds and on judging animals. Any of the students are at liberty to attend these lectures.

THOMAS SHAW,
Division of Animal Husbandry.

FINANCIAL REPORT.

To the Hon. John S. Pillsbury, President Board of Regents, University of Minnesota:

Dear Sir: Herewith I submit my biennial report for the fiscal years commencing Aug. 1, 1894, and ending July 31, 1896.

Very respectfully,

D. W. SPRAGUE,
Accountant.

REPORT FOR THE FISCAL YEAR COMMENCING AUG. 1, 1894, AND ENDING JULY 31, 1895.

REVENUES—CURRENT EXPENSE FUND.

Balance on hand Aug. 1, 1894.....		\$35,307.63
From United States government—Hatch bill appropriation.	\$18,750.00	
From United States government—Morrill bill appropriation.	21,000.00	
From interest on University bonds.....	19,225.00	
From interest on land contracts.....	28,131.75	
From interest on bank deposits.....	1,905.33	
From proceeds of sales of farm products.....	7,331.62	
From proceeds of sales of salt spring land.....	8,844.41	
From students' fees, all departments.....	45,840.03	
From miscellaneous sources.....	2,792.92	
From 3-20 of one mill revenue tax.....	90,800.16	
From appropriation by last legislature for deficiency.....	60,000.00	
		<u>304,621.22</u>
		\$339,928.85

The following amounts were received from treasurer on auditor's warrants:

	Pay Rolls.	Bills.	
Outstanding warrant Aug. 1, 1894.....	\$14,394.90	.....
July expense list.....	3,593.87	\$6,992.25	
August expense list.....	3,922.67	3,664.23	
September expense list.....	15,556.90	6,613.02	
October expense list.....	15,046.50	9,562.24	
November expense list.....	15,579.38	7,212.06	
December expense list.....	15,989.66	9,201.35	
January expense list.....	15,778.34	9,617.09	
February expense list.....	16,059.53	8,602.09	
March expense list.....	16,473.01	5,566.43	
April expense list.....	15,895.73	5,181.50	
May expense list.....	16,071.00	8,759.23	
June expense list.....	14,971.66	3,603.42	
July expense list.....	4,604.82	.....
	<u>\$183,937.97</u>	<u>\$84,574.91</u>	
		183,937.97	
Total pay rolls and bills.....		\$268,512.88	
Fees paid county treasurer for land collections		207.70	
Premiums and interest on invested securities		5,665.40	
		<u>274,385.98</u>	
Outstanding warrant July 31, 1895.....		\$65,542.87	
		8,208.24	
Balance in treasury Aug. 1, 1895.....		<u>\$73,751.11</u>	

GENERAL UNIVERSITY.

CURRENT EXPENSE.

DISBURSEMENTS.

1894.		No. Voucher.	Amount.
July 31.	Pay roll for July.....	1	\$651.89
July 31.	D. W. Sprague, petty bills, June and July.....	2	10.56
June 30.	E. B. Johnson, postage, gas, freight, office help, etc.....	3	675.69
June 30.	E. B. Johnson, services getting out annual catalogue.....	4	75.00
May 31.	W. K. Morison & Co., miscellaneous hardware.....	5	5.25
May 5.	Louis Dreka, altering plate and 250 diplomas.....	6	287.50
June 2.	William Angus, evening librarian, 12 weeks.....	8	36.00
June 25.	John Chick & Sons, repairs on old building.....	9	38.95
May 22.	Walter Babcock, cleaning ladies' parlor.....	10	7.00
June 20.	W. S. Nott Company, 400 feet 1½-inch cotton hose and reducers.....	11	89.84
June 23.	Rickard & Gruman, engrossing diplomas.....	12	37.00
June 25.	Brown & Haywood, glass for repairs.....	13	30.26
June 9.	Danz Orchestra, music for commencement.....	14	125.00
June 30.	J. S. Pillsbury, traveling expenses to Madison.....	15	17.50
June 16.	University Press, printing programs and Circular No. 5.....	16	38.50
May 21.	H. L. Swain & Co., 100 book racks, wire and hooks.....	17	6.83
June 1.	W. H. Lowdermilk & Co., catalogue of U. S. Govt. publications.....	18	5.00
June 1.	Gustav E. Stechert, books for library.....	19	11.41
June 22.	Leslie & McAfee, manilla tag for jackets.....	20	11.85
June 18.	Tribune Job Printing Co., 500 postal cards and printing same.....	21	6.25
June 27.	W. H. Doty, 1 horse and harness.....	67	65.00
July 31.	Walter Babcock, repairs, chemical and main buildings.....	68	256.57
July 26.	Lintges, Connells & Co., changing boiler into tank.....	69	25.00
July 24.	Leslie & McAfee, 4 cases toilet paper.....	70	30.00
July 25.	D. M. Gilmore, tools for steam plant.....	71	15.48
July 2.	S. S. Eustis, mowing grass on campus.....	72	7.50
July 26.	Northwestern Wheel and Foundry Co., 5 sets Hall pat. grates.....	73	175.00
July 23.	Welburn & Stoddard Co., 1 wagon and harness.....	74	50.00
July 12.	Roberts & Langstaff, repairs, plastering.....	75	37.20
July 31.	H. S. Breeden, writing in office.....	76	12.30
July 2.	Lustre Soap Co., 350 pounds Lustre A soap.....	77	28.00
July 26.	R. B. Lees, carpenter repairs.....	78	45.93
June 29.	W. K. Morison & Co., hardware supplies.....	80	7.10
July 30.	Magnesplastic Fireproof Covering Co., covering steam pipe in tunnel.....	81	350.00
July 31.	E. B. Johnson, scrubbing, gas, freight and miscellaneous expenses.....	82	165.43
July 16.	Tribune Job Printing Co., printing 9,190 jackets.....	83	10.00
July 12.	Chas. N. Hewett, M. D., lectures to classes.....	84	145.00
July 27.	New England Furniture and Carpet Co., chair hire for alumni dinner.....	104	7.10
July 27.	John A. Schlener & Co., stationery supplies.....	135	6.15
Aug. 6.	Gopher Board of '95, one-page advertisement.....	136	25.00
May 17.	Edward C. Gale, litigation in tax matters.....	137	65.00
July 31.	John S. Pillsbury, regents' dinners at sundry times.....	138	62.60
July 31.	The Miller Printing Co., printing programs, envelopes, etc..	139	127.35
May 12.	Thomas Peteler, evergreen trees for campus.....	140	60.00
June 5.	Alfred Roper, 600 quarterly bulletins.....	38	81.00
Aug. 31.	Pay roll for month of August, 1894.....	145	540.83
Aug. 31.	D. W. Sprague, postage, gas, freight, office help, etc.....	146	234.50
Aug. 13.	Glessner & Washburn, repairing furniture.....	147	7.25
Aug. 1.	Union Iron Works, lining boilers.....	148	50.49
Aug. 25.	William Bill, cutting threads and pipe.....	149	5.92
April 18.	A. M. Pratt & Co., 5 cases Fac. paper and fixtures.....	150	42.80
July 31.	W. K. Morison & Co., miscellaneous supplies.....	151	21.47
Aug. 29.	E. Gooley, 1,405 pounds feed.....	152	12.17
Aug. 30.	John A. Schlener & Co., stationery.....	153	7.30
Aug. 22.	C. A. Erickson, resetting 5 boilers.....	154	860.00
Aug. 31.	Miller Printing Co., 500 cards.....	155	2.50
Aug. 31.	Leslie & McAfee, 100 reams examination paper.....	156	70.65
July 26.	Gustav E. Stechert, books for library.....	157	12.50
July 31.	D. Appleton & Co., one 1893 annual.....	158	6.00
July 19.	Janney, Semple & Co., 31 pounds 1½-inch rd. brass.....	159	9.30
July 6.	Harrison & Smith, binding 18 volumes.....	160	9.10
Aug. 20.	H. S. Breeden, work on books.....	161	17.55
Aug. 29.	H. S. Breeden, work on books.....	162	12.00
Aug. 31.	D. W. Sprague, petty bills, August.....	200	26.34
Sept. 30.	Pay roll for September.....	215	1,434.83

1894.		No. Voucher.	Amount.
Sept. 30.	D. W. Sprague, freight and express, gas, postage, labor, etc.	216	353.47
Sept. 21.	H. S. Breeden, work on biennial report.....	217	35.92
June 16.	H. S. Larned, books for library.....	218	15.00
Sept. 13.	E. Cooley, bran and feed.....	219	5.11
Sept. 21.	Leonard Transfer Co., drayage on machinery.....	221	5.00
July 10.	Cody-Hinelin Co., plumbing.....	222	75.00
July 31.	E. B. Johnson, office help, cleaning buildings, etc.....	223	324.72
Aug. 31.	Fairbanks, Morse & Co., one six-ton scale, complete.....	224	165.00
Dec. 13.	1893. A. M. Pratt & Co., 3 cases toilet.....	225	25.50
Sept. 1.	Union Iron Works, 15 plates for boilers.....	227	90.75
Aug. 31.	Northwestern Lithograph Co., 5 lithographed check books...	228	25.00
Aug. 31.	W. K. Morison & Co., supplies.....	229	18.03
Sept. 30.	D. W. Sprague, petty bills for September.....	232	13.42
Sept. 21.	Tribune Job Printing Co., stationery and printing.....	234	17.20
Sept. 28.	John Schlener & Co., stationery.....	238	26.70
Sept. 25.	Gustav E. Stechert, books for library.....	241	4.50
Sept. 21.	Gustav E. Stechert, books for library.....	253	754.87
Oct. 31.	Pay roll for September.....	325	1,342.83
Oct. 31.	D. W. Sprague, postage, gas, telephone, labor and miscell's..	326	208.60
Sept. 14.	Straw & Egan, measuring stone taken from university quarry, establishing base line and making plat.....	327	75.00
Oct. 27.	Minneapolis Gas Light Co., running gas pipe to library build- ing.....	328	75.00
Oct. 30.	Trainor Bros., building wall.....	329	326.05
Oct. 16.	Goodnow & Lawther, 156,850 pounds Yough. coal.....	330	302.00
Oct. 22.	Northwestern Fuel Co., 33,430 pounds Yough. coal.....	331	64.36
Oct. 31.	H. S. Breeden, work on biennial report.....	332	40.50
Oct. 12.	Gustav E. Stechert, books for library.....	333	171.82
Oct. 20.	National Hone and Soap Co., 400 pounds Noxall soap.....	334	32.00
Oct. 6.	Leavitt Machine Co., 1 Morse valve reseating outfit.....	335	60.00
Oct. 30.	John A. Schlener & Co., stationery.....	336	5.00
Oct. 30.	Leslie & McAfee, 6,000 cut cards.....	337	5.90
Oct. 1.	University Press, printing.....	339	5.75
Nov. 1.	University Press, printing programs, etc.....	340	7.75
Oct. 31.	D. W. Sprague, petty bills, October.....	344	21.47
Oct. 30.	Morris & Wilson, books for library.....	350	.91
Oct. 31.	Tribune Job Printing Co., printing and stationery.....	358	80.25
Sept. 29.	W. K. Morison & Co., tools and suplies.....	372	23.03
Oct. 9.	John A. Schlener & Co., stationery.....	431	4.40
Oct. 25.	Northwestern Lithographing and Publishing Co., 1,000 checks, bound.....	463	15.00
Aug. 17.	Twin City Sidewalk Co., 60 feet borders.....	464	21.00
Oct. 31.	H. S. Breeden, examining bills for the fiscal year ending July 31, 1894.....	465	10.80
Nov. 30.	Pay roll for November.....	472	1,320.83
Nov. 30.	D. W. Sprague, wages employes, fuel and lights, freight and miscellaneous.....	473	162.24
Nov. 16.	Glessner & Washburn, furniture and repairs.....	474	513.98
Oct. 18.	Twin City Sidewalk Co., relaying walk.....	475	11.21
Nov. 21.	Ariel Association, advertisement one year—1894-5.....	476	100.00
Nov. 9.	C. A. Erickson, labor and material, repairs.....	478	6.60
Nov. 8.	Minneapolis Stamp and Stencil Co., 360 1-L stamps.....	479	18.00
Nov. 22.	Kelly & Lamb, changing and setting radiators.....	480	110.00
Nov. 26.	Northwestern Star Oil Co., one-half barrel cylinder oil.....	481	17.55
Nov. 1.	Maendler Bros., one dozen each floor brushes and dusters...	482	30.00
Nov. 1.	W. K. Morison & Co., supplies.....	483	15.97
Dec. 1.	University Press, printing programs, reg. stips., etc.....	484	38.50
Nov. 26.	D. M. Gilmore & Co., plumbing repairs.....	485	9.60
Nov. 12.	The Dickinson Co., 65 yards crash toweling.....	486	5.05
Nov. 26.	Tribune Job Printing Co., printing vouchers.....	488	3.25
Nov. 13.	A. S. Clark, books for library.....	495	12.00
Nov. 27.	Cody-Hinelin Co., plumbing.....	503	45.63
Nov. 30.	Miller Printing Co., printing.....	505	23.50
Nov. 30.	D. W. Sprague, petty bills.....	511	13.55
Nov. 27.	Northwestern Fuel Co., 581,000 pounds Yough. coal.....	543	1,118.44
Nov. 9.	Aldrich & Co., furniture.....	544	29.75
Dec. 1.	H. S. Breeden, work on biennial report.....	545	35.70
Dec. 18.	Mary Bowen, work in library.....	546	19.92
Dec. 10.	Mrs. S. J. Hall, one volume for library.....	547	3.25
Nov. 27.	Thompson & Lees, general fittings.....	560	20.89
Dec. 29.	D. W. Sprague, gas, freight and express, office work and miscellaneous.....	567	87.71
Nov. 22.	Gustav E. Stechert, books for library.....	568	128.83
Dec. 31.	Pay roll for December.....	579	1,768.83
Jan. 30.	D. W. Sprague, fuel and lights, freight, postage and mis- cellaneous.....	580	217.78
Dec. 28.	Kelly & Lamb, setting radiators.....	581	25.00
Dec. 27.	Leslie & McAfee, stationery.....	582	72.00
Dec. 4.	W. H. Moore, books for library.....	583	340.15

1894.		No. Voucher.	Amount.
Jan. 9.	H. S. Breeden, work expense list and examining bills.....	584	36.60
Aug. 25.	Harrison & Smith, binding 48 volumes.....	585	34.17
Dec. 4.	A. S. Clark, books for library.....	586	9.00
Dec. 5.	Gustav E. Stechert, books for library.....	587	169.61
Dec. 29.	D. M. Gilmore, plumbing.....	588	.86
Nov. 30.	W. K. Morison & Co., supplies.....	589	13.10
Nov. 30.	Walter Babcock, repairs.....	590	33.00
Nov. 30.	John N. Sayer, two horse blankets.....	591	9.00
Oct. 26.	Roberts & Longstaff, repairs.....	592	9.25
Dec. 22.	H. L. Swain & Co., supplies.....	593	10.51
Dec. 22.	Geo. R. Newell & Co., one box ivory soap.....	594	6.85
Dec. 8.	John A. Schlener & Co., stationery.....	595	4.70
Dec. 26.	Thompson & Lees, general fittings.....	596	79.05
Dec. 24.	University Press, printing.....	597	24.15
Dec. 26.	W. J. Dyer & Bro., rent of piano.....	599	10.00
Dec. 31.	Northwestern Fuel Co., 818,100 pounds coal.....	614	1,566.62
Nov. 17.	Harrison & Smith, binding 45 volumes.....	615	38.35
Dec. 31.	Miller Printing Co., printing.....	628	71.02
Dec. 29.	Tribune Job Printing Co., printing.....	633	7.00
Dec. 31.	W. S. Nott Co., leather belting, waste, etc.....	635	26.46
April 7.	Northrup-Braslau Co., lawn grass seed.....	698	30.65
Dec. 31.	D. W. Sprague, petty bills.....	702	6.91
Oct. 17.	S. C. Cutler, appraising loss at coliseum.....	703	55.00
Jan. 3.	W. J. Young, manager horseshoeing.....	704	8.50
Jan. 31.	Pay roll for January.....	714	1,512.02
Feb. 28.	D. W. Sprague, freight and express, postage, gas and miscellaneous.....	715	115.00
Jan. 14.	Standard Oil Co., 50 gallons W. W. oil.....	716	6.10
Feb. 5.	H. S. Breeden, work on expense lists.....	717	16.20
Jan. 30.	Northwestern Fuel Co., 878,100 pounds Yough. coal.....	718	1,695.14
Jan. 31.	Consumers' Gas Saving Co., rent of regulators.....	719	6.00
Jan. 2.	Homan Cement and Lime Co., brick and lime.....	720	9.60
Jan. 19.	H. M. Crittenden & Son, repairs.....	721	47.92
Jan. 2.	Gustav E. Stechert, books for library.....	722	102.19
Jan. 26.	Gustav E. Stechert, books for library.....	723	157.08
Jan. 18.	Leslie & McAfee, 5 cases Dia. toilet.....	724	37.50
Jan. 29.	D. M. Gilmore, plumbing.....	725	43.79
Dec. 20.	Library bureau, furniture.....	726	17.50
Jan. 11.	Harrison & Smith, binding books.....	727	10.25
Jan. 31.	Miller Printing Co., printing postals, etc.....	728	7.25
Jan. 31.	D. W. Sprague, petty bills.....	729	14.89
Dec. 16.	Alfred Roper, printing quarterly bulletin.....	731	57.00
Jan. 23.	University Press, printing.....	732	10.40
Dec. 31.	W. K. Morison & Co., supplies.....	748	79.81
Jan. 25.	Tribune Job Printing Co., printing.....	750	2.25
Dec. 28.	C. A. Smith Lumber Co., supplies.....	752	79.68
Jan. 30.	Lyman-Eliel Drug Co., supplies.....	756	.75
1895.			
Jan. 19.	John A. Schlener & Co., stationery.....	760	\$1.05
Nov. 13.	Leslie & McAfee, 1,500 envelopes.....	767	2.02
Jan. 15.	John A. Schlener & Co., one-half pound No. 3 pins.....	774	.38
Nov. 30.	A. C. Bausman, binding laws.....	819 ¹ / ₂	40.00
Feb. 28.	Pay roll for February.....	827	1,520.83
Feb. 28.	D. W. Sprague, petty bills.....	828	21.55
Mar. 4.	H. S. Breeden, work in accountant's office.....	829	20.92
Feb. 28.	W. K. Morrison & Co., supplies.....	830	58.95
Feb. 28.	W. K. Morrison & Co., supplies.....	831	57.50
Feb. 15.	Louis Dreka, 50 diplomas.....	831	57.50
Feb. 13.	A. S. Clark, books for library.....	832	5.83
Jan. 31.	W. H. Moore, books for library.....	833	6.50
Nov. 22.	Gopher Board, printing.....	834	10.00
Feb. 26.	McClellan Paper Co., 4 1-3 reams 50-pound Tea C paper....	835	13.00
Feb. 23.	J. S. Todd & Co., chalk crayons and erasers.....	836	5.55
Feb. 28.	Consumers' Gas Saving Co., rent of regulators.....	837	12.00
Mar. 4.	Minnesota Magazine, advertising one month.....	838	7.50
Feb. 27.	Brown & Haywood Co., glass.....	839	2.25
Feb. 11.	D. M. Gilmore, plumbing.....	840	12.16
Feb. 26.	Tribune Job Printing Co., stationery and printing.....	841	9.75
Feb. 28.	Northwestern Fuel Co.....	842	1,625.56
Aug. 9.	1894. W. S. Nott Co., tools and supplies.....	843	59.42
Feb. 6.	Gustav E. Stechert, books for library.....	845	38.62
Feb. 21.	Leslie & McAfee, stationery.....	851	1.88
Feb. 28.	Miller Printing Co., printing 1,000 envelopes.....	856	1.25
Feb. 13.	Morris & Wilson, book for library.....	869	1.55
Feb. 21.	Pioneer Press Co., 200 diplomas.....	885	40.00
Feb. 27.	Geo. B. Darling, lunch to legislative committee.....	887	20.00

1895.		No. Voucher.	Amount.
Mar. 28.	D. W. Sprague, freight, express, gas, postage and miscellaneous	946	202.53
Mar. 31.	Pay roll for March	953	1,520.83
Mar. 31.	D. W. Sprague, petty bills	954	15.22
Mar. 22.	Gustav E. Stechert, books for library	955	399.88
Mar. 21.	Rickard & Gruman, engrossing certificates	956	5.50
Mar. 20.	D. M. Gilmore, plumbing	957	19.19
April 1.	H. S. Breeden, work in accountant's office	958	20.00
Feb. 28.	Walter Babcock, carpenter work	959	35.00
Feb. 16.	John P. Haire, books for library	960	50.00
Mar. 31.	Consumers' Gas Saving Co., rent of regulators	961	12.00
Mar. 21.	Standard Oil Co., one barrel engine oil	962	17.69
Mar. 4.	H. L. Swain & Co., supplies	963	6.18
April 1.	University Press, printing	966	.26
Mar. 23.	D. Appleton & Co., books for library	967	6.00
Mar. 7.	Morgan Envelope Co., stationery	968	15.19
Mar. 30.	Miller Printing Co., 500 catalogues	969	2.00
Mar. 12.	Leslie & McAfee, catalogues	970	538.67
Mar. 25.	John A. Schlener & Co., stationery	971	5.55
Mar. 26.	Northwestern Fuel Co., fuel	972	1,128.20
Feb. 21.	Electrical Engineering Co., supplies	978	6.75
Mar. 29.	Morris & Wilson, books for library	990	28.70
Mar. 29.	Morris & Wilson, books for library	993	4.88
Feb. 25.	F. G. McMillan, repairs Mechanics Art building	1,008	806.00
April 26.	D. W. Sprague, freight, fuel, printing and supplies	1,035	75.37
April 30.	Pay roll for April	1,044	1,430.83
April 30.	D. W. Sprague, petty bills	1,045	20.65
April 30.	H. S. Breeden, work in accountant's office	1,046	17.70
April 23.	John A. Schlener & Co., stationery	1,047	8.40
April 8.	John A. Schlener & Co., stationery	1,048	4.20
April 23.	City of Minneapolis, repairs to hydrants	1,050	10.00
April 12.	J. S. Todd & Co., 1 dozen 150-page records	1,053	6.60
May 9.	Brown & Haywood Co., repairs	1,054	13.31
April 3.	McInerny & Hickey, plumbing	1,055	153.00
April 2.	Gustav E. Stechert, books for library	1,056	20.51
Sept. 11.	Goodnow & Lawther, 4,000 pounds stove coal	1,057	13.40
April 16.	Leslie & McAfee, stationery	1,059	40.00
April 22.	Leslie & McAfee, 5 cases Diamond toilet	1,060	37.50
April 30.	Consumers' Gas Saving Co., rent of regulators for April	1,061	12.00
Mar. 30.	W. K. Morison & Co., supplies	1,062	33.26
April 25.	Northwestern Lithographing and Publishing Co., supplies	1,063	49.00
April 13.	Minneapolis Office and School Furniture Co., repairs	1,064	10.00
April 12.	Ernest A. Wright, 50 diplomas	1,065	30.00
April 1.	Minnesota Magazine, April advertisement	1,066	15.00
April 29.	The Miller Printing Co., printing catalogues, etc.	1,116	703.33
April 30.	E. B. Johnson, annual catalogue	1,118	75.00
May 31.	D. W. Sprague, freight and express, gas, postage and miscellaneous	1,124	261.39
May 18.	D. W. Sprague, graining cupboard in accountant's office	1,125	4.00
April 8.	Brown & Haywood, 4 mirrors, 20x72	1,126	30.00
Mar. 30.	Minneapolis Office and School Furniture Co., furniture	1,127	122.50
April 2.	New England Furniture Co., furniture	1,128	17.55
April 6.	Kelly & Lamb, 8 automatic air valves	1,129	9.00
April 19.	Charles Sieben, one set Timpkin springs	1,130	7.00
April 20.	Frank Rodgers, lettering signs	1,131	5.00
April 29.	W. I. Gray & Co., electrical supplies	1,132	9.57
April 29.	R. Alexander, bookstacks per contract	1,133	1,197.50
May 31.	Pay roll for May	1,138	1,453.83
May 31.	D. W. Sprague, petty bills	1,139	13.35
May 25.	Rickard & Gruman, work on 280 diplomas	1,140	140.00
May 29.	Minnesota Magazine, advertisement for May and June	1,141	15.00
May 1.	The Dickinson Co., supplies	1,142	24.84
May 17.	Harrison & Smith, binding 107 volumes	1,143	97.90
May 22.	Ernest A. Wright, diplomas and plate	1,144	342.50
May 27.	Chas. N. Hewitt, lectures and laboratory instruction	1,145	160.00
May 10.	Leslie & McAfee, stationery	1,146	11.93
April 20.	W. K. Morison & Co., supplies	1,147	17.45
May 22.	Morgan Envelope Co., 30,000 Govt. 6 $\frac{3}{4}$ envelopes	1,148	37.50
May 29.	H. S. Breeden, work in accountant's office	1,149	12.50
May 29.	John A. Schlener & Co., stationery	1,150	7.37
May 17.	Tribune Job Printing Co., printing	1,151	5.50
May 16.	Gustav E. Stechert, books for library	1,152	28.79
June 7.	Geo. E. Henderson, secretary, rent of Exposition auditorium	1,153	25.00
May 30.	Northwestern Fuel Co., fuel	1,154	488.85
June 5.	L. S. Swenson, transportation and miscellaneous	1,155	18.25
June 6.	The Gopher Board, '96, advertisement, one page	1,156	25.00
May 31.	Consumers' Gas Saving Co., use of ' regulators	1,157	12.00
May 25.	Tribune Job Printing Co., printing	1,158	7.75
May 29.	The Miller Printing Co., printing and binding	1,159	75.39
May 24.	H. L. Swain & Co., repairs	1,160	20.28

1895.		No. Voucher.	Amount.
May 8.	Glessner & Washburn, 2 stools.....	1,170	3.00
April 29.	Morris & Wilson, books for library.....	1,171	.80
June 6.	Stephen Mahoney, tickets to Alumni dinner for state officers, regents and invited guests.....	1,236	58.00
May 10.	Minneapolis Office and School Furniture Co., furniture.....	1,238	8.00
April 2.	Geo. D. Stephenson, plans for wiring library building.....	1,239	32.90
May 20.	James Bladon & Co., gas fixtures in library.....	1,240	7.00
May 8.	Glessner & Washburn, furniture.....	1,241	43.27
April 11.	Burt E. Townsend, furniture.....	1,242	102.00
May 29.	J. G. Beattie & Co., plumbing.....	1,243	37.00
April 10.	R. Alexander, furniture.....	1,244	43.00
June 1.	R. Alexander, furniture and fixtures.....	1,245	1,000.00
May 4.	Central Manufacturing Co., furniture.....	1,246	120.00
June 28.	D. W. Sprague, freight, express, gas, postage, labor and miscellaneous	1,247	647.33
June 30.	Pay roll for June.....	1,252	1,460.83
June 30.	D. W. Sprague, petty bills.....	1,253	18.20
Feb. 19.	The Cody-Hineline Co., plumbing.....	1,254	13.35
June 11.	Rickard & Gruman, engrossing 74 diplomas.....	1,255	37.00
July 1.	Leslie & McAfee, stationery.....	1,256	71.40
July 1.	Library bureau supplies.....	1,257	63.52
June 6.	Mendenhall Greenhouses, decorating Exposition building....	1,258	18.00
June 5.	W. N. Brown, 3,500 commencement programs.....	1,259	35.00
May 27.	Weeber & Kletzin, feed.....	1,260	6.10
May 26.	Tribune Job Printing Co., printing.....	1,261	3.50
June 27.	John A. Schlener & Co., stationery.....	1,262	2.65
June 1.	D. L. Ellis, one typewriter and table.....	1,264	94.50
June 26.	University Press, printing.....	1,265	36.83
June 29.	B. H. Horgen Supply Co., 400 pounds Horgen's soap.....	1,267	32.00
May 10.	Homan Cement & Lime Co., supplies.....	1,268	8.40
June 8.	W. S. Nott Company, supplies.....	1,275	6.30
July 12.	James Claydon, repairs.....	1,278	72.00
May 31.	W. K. Morison & Co., supplies.....	1,280	4.80
July 25.	D. W. Sprague, freight, express, gas, postage and miscel- laneous	1,294	497.42
July 31.	Pay roll for July.....	1,323	1,325.99
Total			\$46,715.64

COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	D. W. Sprague, petty bills, June and July.....	2	\$12.46
July 30.	E. B. Johnson, postage, gas, printing and miscellaneous ex- penses	3	59.69
June 30.	Walter Babcock, repairs per contract.....	7	90.00
June 22.	Leslie & McAfee, paper cut to order.....	20	2.17
June 18.	Tribune Job Printing Co., 2,000 manilla envelopes.....	22	9.00
June 2.	Queen & Co., apparatus and instruments.....	24	37.30
May 15.	Minneapolis Plumbing Co., plumbing and gas fitting.....	25	123.40
June 25.	Frank M. Anderson, instruction department of history.....	27	50.06
June 19.	C. W. Benton, books for library.....	28	76.05
May 29.	Richard King & Co., apparatus and instruments.....	29	67.00
July 26.	R. B. Lees, moving cases.....	78	1.85
June 13.	W. J. Dyer & Bro., rent of piano seven months.....	79	10.00
July 31.	E. B. Johnson, scrubbing, gas, printing, and miscellaneous..	82	30.01
July 5.	Josephine A. Clark, 2,160 index cards.....	85	32.40
Mar. 19.	Crolius, Tucker & Allen Co., glasses and watch crystals....	86	6.75
June 16.	The Wernicke Co., repairs in laboratory.....	88	28.45
July 1.	R. Friedlander & Sohn, books for library.....	89	3.48
May 29.	C. W. Hall, typewriting, paper and ink.....	141	5.67
Aug. 31.	Pay roll for month of August, 1894.....	145	285.00
Aug. 31.	D. W. Sprague, postage, gas, printing and miscellaneous....	146	11.58
Aug. 31.	Miller Printing Co., registration blanks and cards.....	155	38.60
Aug. 8.	Morris & Wilson, books for library.....	163	19.25
Aug. 28.	The Dickinson Co., towels and carpet.....	165	7.40
July 7.	Bausch & Lomb Opt. Co., apparatus repairs.....	166	17.50
Aug. 3.	Gustav E. Stechert, books for library.....	167	21.04
Aug. 26.	R. B. Lees, repairs on main building.....	173	9.86
Jan. 27.	P. J. Kipp & Zonen, supplies.....	169	14.34
Aug. 22.	D. T. McDougal, repairing water motor.....	170	5.00

1894.		No. Voucher.	Amount
Aug. 31.	Fauth & Co., repairing apparatus.....	171	5.00
Aug. 31.	D. W. Sprague, petty bills for August.....	209	17.27
Sept. 30.	Pay roll for September.....	215	6,135.00
Sept. 30.	D. W. Sprague, freight and express, gas, labor and miscellaneous	216	236.54
Sept. 13.	Richard & Birch, 1 Columbian water filter.....	220	29.75
June 30.	National Carpet Cleaning Co., cleaning and laying 164 yards of carpet	226	14.76
Sept. 14.	Cody-Hineline Co., plumbing repairs.....	231	37.12
Sept. 30.	D. W. Sprague, petty bills for September.....	232	25.80
Sept. 20.	Alex. P. Anderson, one registering balance.....	233	37.10
Aug. 30.	Morris & Wilson, books for library.....	235	9.80
Sept. 1.	Walter A. Luttgen, apparatus and instruments.....	236	30.00
Sept. 10.	Minneapolis Paper Co., 10 reams paper.....	237	19.20
Sept. 28.	John A. Schlener & Co., 2 scrap books.....	238	1.60
Sept. 21.	O. J. Breda, books for library.....	239	50.00
July 10.	Queen & Co., instruments.....	240	20.05
Sept. 25.	Gustav E. Stechert, books for library.....	241	24.71
Aug. 29.	Charles N. Bacon, blackboard erasers.....	242	5.63
Sept. 6.	Alfred Roper, 1,000 circulars and envelopes.....	243	23.00
Sept. 20.	R. B. Lees, general repairs.....	244	14.83
July 17.	Bausch & Lomb Optical Co., supplies.....	248	40.81
Sept. 19.	Marine Biological Laboratory, supplies.....	249	59.35
Sept. 18.	Richard Kny & Co., supplies.....	250	8.78
Sept. 7.	Richard Kny & Co., supplies.....	251	57.05
Sept. 27.	H. L. Swain & Co., miscellaneous supplies.....	252	8.25
Sept. 21.	Gustav E. Stechert, books for library.....	253	4.50
Sept. 28.	C. A. Erickson, general fittings.....	255	19.50
Aug. 10.	Dr. George Grüber, chemical supplies.....	256	198.25
July 11.	E. Zimmerman, apparatus and instruments.....	257	111.08
Aug. 24.	R. Friedlander & Sohn, books for library.....	258	83.42
Aug. 31.	K. F. Koehlers, antiquarium, books for library.....	259	380.42
Sept. 17.	K. F. Koehlers, antiquarium, books for library.....	260	4.36
Sept. 27.	K. F. Koehlers, antiquarium, books for library.....	261	79.57
Oct. 31.	Pay roll for October.....	325	6,195.00
Oct. 31.	D. W. Sprague, freight and express, gas, labor and miscellaneous	326	150.25
Oct. 12.	Gustav E. Stechert, books for library.....	333	12.81
Nov. 1.	Thompson & Lees, general fittings and repairs.....	338	58.94
Oct. 1.	University Press, books for library and cards.....	339	9.25
Nov. 1.	University Press, books for library and printing.....	340	76.25
Sept. 14.	Garden City Model Works, 2 reaction keys.....	342	9.50
Oct. 5.	Library Bureau, furniture.....	343	55.00
Oct. 31.	D. W. Sprague, petty bills.....	344	20.67
Sept. 28.	Alfred Roper, printing 4,000 orders.....	346	7.00
Sept. 13.	Eimer & Amend, instruments and apparatus.....	347	19.20
Oct. 24.	Henry F. Nachtrieb, freight and transportation.....	348	73.75
Oct. 30.	Morris & Wilson, books for library.....	349	29.84
Oct. 20.	Morris & Wilson, books for library.....	350	29.00
Oct. 1.	E. R. Squibb & Sons, supplies.....	351	20.88
Oct. 28.	O. Mattoon Fur and Carpet Co., furniture.....	352	22.50
Oct. 19.	Lyman-Eliel Drug Co., supplies.....	353	13.74
Oct. 30.	Conway MacMillan, freight and transportation.....	354	10.00
Oct. 8.	Electric Storage Battery Co., apparatus.....	355	9.80
Oct. 24.	E. A. Cuzner, supplies.....	356	9.25
Oct. 30.	B. P. Shepherd, supplies.....	357	12.30
Oct. 31.	Tribune Job Printing Co., printing.....	358	39.50
Oct. 31.	Alfred Roper, 200 copies "The Problem of Free Will".....	359	24.00
July 19.	Max Kaehler & Martini, supplies.....	360	956.46
Aug. 15.	C. A. F. Kahlbaum, supplies.....	361	221.12
Sept. 26.	R. B. Lees, repairs.....	362	3.50
Oct. 5.	Richards & Co., supplies.....	377	21.28
Oct. 26.	Harrison & Smith, 50 sheets ruled and printed.....	378	4.00
Sept. 29.	Miller Printing Co., printing.....	404	2.00
Nov. 30.	Pay roll for November.....	472	6,283.12
Nov. 30.	D. W. Sprague, gas, freight and express, labor and miscellaneous	473	149.26
Nov. 14.	Miller Printing Co., 400 history sheets.....	477	5.00
Dec. 1.	University Press, printing "Hawthorne".....	484	4.16
Nov. 26.	Tribune Job Printing Co., 2,000 letter and memo. heads....	488	5.50
Nov. 1.	W. W. Dakin, repairs on instruments.....	491	6.85
Oct. 29.	George B. Frankforter, postage and supplies.....	492	5.70
Oct. 18.	W. W. Dakin, repairs on instruments.....	496	8.30
Oct. 18.	Nalder Bros. & Co., apparatus.....	498	165.83
Nov. 30.	Miller Printing Co., printing.....	505	26.50
Nov. 20.	J. G. Swahn's Sons, 262 assorted stand pots.....	506	5.47
Nov. 27.	Thompson & Lees, general fittings.....	510	289.00
Nov. 30.	D. W. Sprague, petty bills.....	511	13.91
Nov. 27.	Thompson & Lees, general fittings.....	560	109.54

1894.		No. Voucher.	Amount.
Dec. 29.	D. W. Sprague, gas, express, freight, office help, miscellaneous	567	227.22
Nov. 22.	Gustav E. Stechert, books for library	568	13.23
Dec. 31.	Pay roll for December	579	6,228.12
Jan. 30.	D. W. Sprague, gas, freight and express, labor and miscellaneous	580	193.19
Dec. 27.	Leslie & McAfee, stationery	582	1.35
Dec. 5.	Gustav E. Stechert, books for library	587	1.00
Dec. 29.	D. M. Gilmore, plumbing	588	5.92
Dec. 8.	John A. Schlener & Co., stationery	595	2.10
Dec. 24.	University Press, printing	597	5.75
Dec. 20.	Morris & Wilson, books for library	598	88.00
Dec. 6.	Josephine A. Clark, 1,821 index cards	600	11.41
Nov. 13.	Cambridge Bot. Supply Co., 10,000 cards	601	16.40
Dec. 1.	Harrison & Smith, binding 90 volumes, 1/2 mo.	602	84.09
Dec. 28.	Edmund P. Sheldon, postage and typewriting	603	8.45
Dec. 30.	Josephine E. Tilden, Century I., Am. Algae	604	10.00
Dec. 29.	Henry F. Nachtrieb, miscellaneous	606	17.21
Dec. 3.	Clarke Barrows, salary employe	607	20.00
Dec. 3.	Lyman-Elie! Drug Co., supplies	608	5.70
Oct. 31.	James Bladon & Co., furniture	609	6.00
Nov. 16.	D. & D. Electrical Manufacturing Co., one rheostat	610	12.00
Sept. 26.	Mayer & Müller, books for library	611	498.21
Dec. 4.	Lucas Bros., 24 copper plates	612	6.00
Dec. 17.	Dr. W. A. Jones, lectures	613	60.00
Dec. 10.	Electrical Engineering Co., apparatus and instruments	620	13.40
Dec. 31.	Miller Printing Co., printing	628	12.25
Dec. 21.	Noyes Bros. & Cutler, 1/4 pound acid arsenic, pure	640	.58
Dec. 31.	D. W. Sprague, petty bills	702	3.10
Jan. 31.	Pay roll for January	714	6,188.12
Feb. 28.	D. W. Sprague, labor, gas, freight and express, postage and miscellaneous	715	128.98
Jan. 11.	Harrison & Smith, binding books	727	16.00
Jan. 31.	D. W. Sprague, petty bills	729	30.43
Dec. 31.	James W. Day, ice supply for one year	730	117.72
Dec. 26.	Alfred Roper, printing	731	4.00
Jan. 23.	University Press, printing	732	4.75
Dec. 26.	Thompson & Lees, general fittings	733	10.00
Dec. 29.	Richards & Co., supplies	734	29.26
Jan. 15.	Morris & Wilson, books for library	735	99.50
Jan. 15.	F. W. Dewart, books for library	736	24.75
Jan. 10.	H. L. Swain & Co., supplies and labor	737	7.04
Oct. 31.	John Saul, seeds and plants	738	5.75
Nov. 6.	Minneapolis Photo. Supply Co., supplies	739	5.00
Jan. 1.	Francis Ramaly, work in herbarium	740	29.87
Dec. 31.	Wm. Wisley & Son, books for library	741	100.72
Jan. 1.	Twin City Calcium Light Co., supplies	746	11.80
Jan. 30.	Lyman-Elie! Drug Co., supplies	756	6.15
1895.			
Feb. 28.	Pay roll for February	827	6,234.16
Feb. 28.	D. W. Sprague, petty bills	828	12.10
Nov. 1.	Frederick Read, supplies	846	51.41
Feb. 8.	Josiah Thompson, Jr., insurance on plants	847	5.53
Feb. 20.	C. E. Cope, stationery and printing	848	12.90
Jan. 30.	Houghton, Mifflin & Co., books for library	849	25.00
Feb. 21.	Leslie & McAfee, stationery	851	.75
Mar. 2.	Alice Young, instruction in English	852	200.00
Mar. 1.	F. Ramaly, work in herbarium	853	20.00
Jan. 10.	Minneapolis Paper Box Factory, 200 pamphlet files	854	24.00
Feb. 28.	Miller Printing Co., printing	856	100.34
Feb. 25.	Bausch & Lomb Optical Co., apparatus and supplies	857	15.92
Feb. 13.	Morris & Wilson, three boxes labels	869	1.80
Mar. 28.	D. W. Sprague, freight and express, gas, postage and miscellaneous	946	221.34
Mar. 31.	Pay roll for March	953	6,402.79
Mar. 31.	D. W. Sprague, petty bills	954	22.40
April 1.	University Press, printing	966	15.00
Mar. 25.	John A. Schlener & Co., stationery	971	.60
Jan. 1.	R. Alexander, furniture	974	45.00
Mar. 15.	Richards & Co., supplies	976	28.03
Mar. 29.	Morris & Wilson, books for library	990	30.00
Feb. 20.	Richard Kny & Co., apparatus and instruments	999	23.35
April 26.	D. W. Sprague, freight and express, gas, postage and miscellaneous	1,035	77.75
April 30.	Pay roll for April	1,044	6,384.79
April 30.	D. W. Sprague, petty bills	1,045	3.59
April 8.	John A. Schlener & Co., stationery	1,048	.60
April 6.	Glessner & Washburn, 13 yards matting	1,051	8.87

1895.		No. Voucher.	Amount.
April 3.	McInerny & Hickey, repairs.....	1,055	18.00
April 9.	W. W. Dakin, 2 electric hammers.....	1,068	30.00
April 1.	Francis Ramaley, salaries of employes.....	1,069	50.00
April 27.	Thompson & Lees, furniture.....	1,067	20.00
Mar. 25.	J. W. Hampton & Co., foreign charges on glassware	1,076	23.83
May 2.	D. W. Sprague, freight an express, gas, postage and miscel- laneous	1,124	76.52
May 31.	Pay roll for May.....	1,138	6,323.79
May 31.	D. W. Sprague, petty bills.....	1,139	9.95
April 1.	Twin City Calcium Light Co., supplies.....	1,161	7.50
Mar. 31.	Richard Kny & Co., apparatus and instruments.....	1,162	270.53
April 18.	Richards & Co., apparatus and supplies.....	1,163	240.25
Sept. 30.	Alfred Roper, 4,000 order sheets.....	1,164	7.00
May 29.	Alice Young, salary.....	1,165	100.00
June 28.	Baker & Adamson, 94 pounds ammonia.....	1,166	11.15
Jan. 23.	H. Welter, books for library.....	1,167	5.94
April 13.	K. F. Koehler's Antiquarium, books for library.....	1,168	404.07
April 29.	Morris & Wilson, books for library.....	1,169	6.02
May 8.	Glessner & Washburn, 2 yards linoleum.....	1,241	1.50
June 28.	D. W. Sprague, freight, express, gas, postage, labor and mis- cellaneous	1,247	132.82
June 30.	Pay roll for June.....	1,252	6,173.12
June 30.	D. W. Sprague, petty bills.....	1,253	4.00
June 27.	John A. Schlener & Co., stationery.....	1,262	1.00
June 26.	University Press, printing.....	1,265	19.70
May 31.	Harrison & Smith, printing.....	1,269	12.20
April 16.	O. H. Peck, supplies.....	1,270	7.42
May 17.	Electrical Engineering Co., apparatus.....	1,272	5.67
May 15.	Thompson & Lees, equipment.....	1,279	16.00
July 25.	D. W. Sprague, freight and express, gas, postage and miscel- laneous	1,294	24.00
June 29.	Jennette M. McLaren, lectures, summer school.....	1,312	20.00
July 31.	Pay roll for July.....	1,323	148.88
Total			<u>\$72,574.17</u>

Military Science.

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	E. B. Johnson, freight on cartridges, etc.....	82	\$5.17
Aug. 26.	R. B. Lees, 6 gun racks.....	173	60.00
Sept. 30.	Pay roll for September.....	215	85.00
Sept. 30.	D. W. Sprague, freight.....	216	2.10
Sept. 21.	Tribune Job Printing Co., 200 adjutant's reports.....	234	1.75
Sept. 20.	R. B. Lees, revolving target.....	244	3.75
Sept. 5.	Robert C. Kretschmar, 7 G. trumpets G. S.....	262	38.50
Oct. 31.	Pay roll for October.....	320	85.00
Oct. 31.	D. W. Sprague, freight.....	326	27.62
Oct. 31.	Tribune Job Printing Co., 250 programs.....	358	6.00
Nov. 30.	Pay roll for November.....	472	85.00
Nov. 30.	D. W. Sprague, freight and express.....	473	.60
Nov. 26.	Tribune Job Printing Co., 1,000 cadet reports.....	488	2.25
Nov. 30.	D. W. Sprague, petty bills.....	511	4.78
Dec. 29.	D. W. Sprague, express and freight.....	567	1.90
Dec. 31.	Pay roll for December.....	579	85.00
Jan. 30.	D. W. Sprague, express and freight on rifles.....	580	44.53
Oct. 31.	W. J. Dyer & Bro., equipment.....	629	12.44
Nov. 28.	Henderson-Ames Co., swords and belts.....	630	90.85
Dec. 31.	D. W. Sprague, petty bills.....	702	1.20
Jan. 31.	Pay roll for January.....	714	85.00
Feb. 28.	D. W. Sprague, powder and freight.....	715	9.58
Jan. 15.	Morris & Wilson, books for library.....	735	4.25
Feb. 28.	Pay roll for February.....	827	85.00
Feb. 19.	Ed. Reeve, instrument.....	846	30.00
Mar. 28.	D. W. Sprague, freight and express.....	946	3.20
Mar. 31.	Pay roll for March.....	953	85.00
Mar. 9.	Tribune Job Printing Co., printing.....	965	14.50
Mar. 16.	A. W. Campbell, miscellaneous.....	997	6.00
April 26.	D. W. Sprague, freight on powder.....	1,035	1.72
April 30.	Pay roll for April.....	1,044	85.00
April 30.	D. W. Sprague, petty bills.....	1,045	1.60
May 31.	D. W. Sprague, freight on cartridges.....	1,124	4.58

1894.		No. Voucher.	Amount.
May 31.	Pay roll for May.....	1,138	85.00
May 31.	D. W. Sprague, petty bills.....	1,139	3.50
May 1.	The Dickinson Co., 4 yards cotton.....	1,142	.80
June 28.	D. W. Sprague, one flag and express.....	1,247	2.80
1895.			
June 30.	Pay roll for June.....	1,252	50.00
July 31.	Pay roll for July.....	1,323	100.00
Total			<u>\$1,300.97</u>

COLLEGE OF ENGINEERING, METALLURGY AND THE MECHANIC ARTS.

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	D. W. Sprague, petty bills for June and July.....	2	\$9.70
May 31.	W. K. Morison & Co., tools and hardware.....	5	1.78
June 22.	Leslie & McAfee, paper cut to order.....	20	1.08
May 31.	Engineer's Year Book—advertisement.....	33	6.00
June 2.	W. W. Dakin, 6 galvanometers.....	34	40.00
June 19.	D. & D. Electric Manufacturing Co., 1 double pole double throw switch.....	35	6.00
May 8.	Gillette-Herzog Mfg. Co., bending tool steel.....	36	5.38
June 29.	C. W. Hall, postage and miscellaneous supplies.....	37	12.09
July 31.	E. B. Johnson, scrubbing, gas and miscellaneous expenses....	82	4.44
July 30.	W. R. Appleby, traveling expenses to Chicago and return...	90	52.25
July 28.	W. R. Appleby, apparatus and instruments.....	91	18.51
July 31.	Peter Christianson, salary for month of July.....	92	50.00
April 30.	W. K. Morison & Co., locks and blank keys.....	93	8.38
July 9.	Stoddard Hardware Co., hardware supplies.....	94	8.62
July 7.	Squires & Todd, white oak and pine lumber.....	94	40.21
July 24.	Goodnow & Lawther, 12,520 pounds Yough. coal.....	101	27.12
Aug. 31.	Pay roll for month of August.....	145	209.00
Aug. 31.	D. W. Sprague, gas and miscellaneous.....	146	5.38
July 31.	W. K. Morison & Co., locks, hinges and screws.....	151	2.04
Aug. 30.	John A. Schlener & Co., 1 invoice book.....	153	1.75
Aug. 31.	Miller Printing Co., registration cards and certificates.....	155	9.65
July 31.	Minneapolis Fuel Co., 4,000 pounds Cumberland coal.....	179	14.50
Aug. 31.	Peter Christianson, services for month of August, 1894.....	180	50.00
Sept. 3.	J. H. Gill, work on general repairs and construction.....	184	90.00
Aug. 31.	D. W. Sprague, petty bills for August.....	209	6.74
Sept. 30.	Pay roll for September.....	215	1,420.00
Sept. 30.	D. W. Sprague, freight and express, gas, labor and miscellaneous	216	24.59
Aug. 31.	W. K. Morison & Co., supplies.....	229	3.35
Sept. 30.	D. W. Sprague, petty bills for September.....	232	7.00
Sept. 28.	John Schlener & Co., stationery.....	238	2.70
Sept. 25.	Gustav E. Stechert, books for library.....	241	12.42
Oct. 1.	Eugene Smith, 1 stack (per contract).....	254	32.00
Aug. 4.	Engineers' Society, advertisement in year book.....	263	5.00
Sept. 14.	Electrical Publishing Co., books for library.....	264	9.25
Sept. 24.	Electrical Engineering Co., supplies.....	265	56.48
Sept. 27.	Daniel Buck, 22½ hours' work on electric bells.....	270	6.75
Sept. 20.	Smith & Wyman, supplies.....	272	8.92
Sept. 29.	Geo. D. Shepardson, stamps, office help and miscellaneous supplies	273	15.31
Sept. 22.	Library Bureau, supplies.....	274	38.75
Sept. 8.	H. A. Wheeler, supplies.....	275	195.00
Oct. 1.	C. W. Hall, freight and transportation.....	312	78.27
Oct. 31.	Pay roll for October.....	325	1,420.00
Oct. 31.	D. W. Sprague, freight, gas, labor and miscellaneous.....	326	7.53
Oct. 12.	Gustav E. Stechert, books for library.....	333	12.22
Oct. 31.	D. W. Sprague, petty bills.....	344	17.96
Oct. 30.	Morris & Wilson, books for library.....	350	9.00
Sept. 12.	Janney, Semple & Co., supplies.....	363	79.47
Sept. 5.	Standard Oil Co., ½ barrel cap oil.....	364	11.41
Sept. 28.	H. E. Smith, stamps and miscellaneous supplies.....	365	5.21
Oct. 31.	W. R. Appleby, freight and transportation.....	366	30.33
Oct. 31.	C. W. Hall, postage and miscellaneous supplies.....	367	14.15
Sept. 20.	Stoddard Hardware Co., supplies.....	368	8.06
Oct. 30.	O. H. Peck, photographic supplies.....	369	9.10
Sept. 28.	E. H. Sargent & Co., 1 assayer's hand mill.....	370	7.35
Oct. 8.	Fairbanks, Morse & Co., 1 grocer's scale.....	371	10.15

1894.		No. Voucher.	Amount.
Sept. 29.	W. K. Morison & Co., supplies.....	372	12.97
Sept. 15.	Minneapolis Office and School Furniture Co., furniture.....	373	10.50
Aug. 30.	Squires & Todd, supplies.....	374	99.13
Aug. 31.	F. W. Denton, 64 lantern slides.....	375	100.00
Oct. 25.	P. H. Rugg & Co., supplies.....	376	7.26
Oct. 5.	Richards & Co., supplies.....	377	52.83
Oct. 26.	Harrison & Smith, binding 53 volumes.....	378	53.85
Oct. 16.	Stoddard Hardware Co., tools and supplies.....	379	38.31
Oct. 19.	Crescent Steel Co., supplies.....	380	29.11
Sept. 29.	Miller Printing Co., printing requisitions.....	404	50.00
Nov. 30.	Pay roll for November.....	472	1,420.00
Nov. 30.	D. W. Sprague, gas, express and freight, labor and miscellaneous	473	20.19
Nov. 26.	Tribune Job Printing Co., printing.....	488	11.50
Nov. 9.	Squires & Todd, supplies.....	493	11.73
Nov. 12.	Twin City Iron Works, machinery.....	497	24.70
Jan. 26.	Nalden Bros. & Co., apparatus.....	498	41.08
Nov. 7.	Zimmerman Bros., photographic supplies.....	499	22.91
Nov. 10.	Stoddard Hardware Co., supplies.....	500	7.35
Nov. 15.	Janney, Semple & Co., supplies.....	502	5.28
Nov. 27.	Cody-Hineline Co., plumbing.....	503	2.70
Nov. 30.	Miller Printing Co., printing.....	505	10.75
Nov. 30.	D. W. Sprague, petty bills.....	511	3.13
Dec. 29.	D. W. Sprague, gas, office help, freight and express, salary of employees, and miscellaneous.....	567	159.17
Dec. 31.	Pay roll for December.....	579	1,420.00
Jan. 30.	D. W. Sprague, fuel and lights, freight, express and miscellaneous	580	85.21
Nov. 30.	W. K. Morison & Co., supplies.....	589	39.09
Dec. 8.	John A. Schlener & Co., stationery.....	595	1.48
Dec. 24.	University Press, printing.....	597	.75
Nov. 13.	Ward Natural Science Establishment, supplies.....	617	35.35
Dec. 1.	W. S. Nott Co., supplies.....	618	28.64
Dec. 1.	H. Downs & Sons, general fittings.....	619	40.00
Dec. 10.	Electric Engineering Co., apparatus.....	620	22.32
Dec. 17.	McIntosh Battery and Optical Co., apparatus.....	621	49.60
Dec. 31.	W. R. Appleby, miscellaneous	622	16.62
Dec. 3.	W. I. Gray & Co., supplies.....	623	5.06
Dec. 7.	Stoddard Hardware Co., supplies.....	624	38.76
Dec. 11.	Standard Oil Co., ½ barrel engine oil.....	625	7.13
Dec. 1.	Janney, Semple & Co., supplies.....	626	5.74
Dec. 20.	Burtis & Howard, apparatus.....	627	25.00
Dec. 31.	Miller Printing Co., printing.....	628	4.00
Dec. 13.	Richards & Co., apparatus and instruments.....	701	59.06
Dec. 31.	D. W. Sprague, petty bills	702	9.56
Jan. 31.	Pay roll for January.....	714	1,420.00
Feb. 28.	D. W. Sprague, gas, freight, express, postage and miscellaneous	715	22.41
Jan. 30.	N. W. Fuel Co., 4,000 pounds Cumberland coal.....	718	11.00
Jan. 2.	Gustav E. Stechert, books for library.....	722	5.04
Jan. 11.	Harrison & Smith, binding books for library.....	727	19.59
Jan. 31.	D. W. Sprague, petty bills.....	729	8.53
Jan. 31.	James W. Day, ice for year 1894.....	730	40.34
Jan. 23.	University Press, printing.....	732	1.75
Jan. 15.	Morris & Wilson, books for library.....	735	1.85
Jan. 19.	Electrical Engineering Co., apparatus.....	742	42.98
Jan. 30.	W. R. Hoag, miscellaneous.....	743	13.05
Jan. 28.	Geo. D. Shepardson, office assistance and supplies.....	744	19.14
Jan. 23.	A. S. Aloe Co., one Colby slide rule.....	745	20.00
Jan. 14.	H. T. Ardley, furniture.....	747	14.00
1895.			
Dec. 31.	W. K. Morison & Co., supplies.....	748	6.23
Jan. 31.	Morris & Wilson, books for library.....	749	7.75
Jan. 25.	Tribune Job Printing Co., printing.....	750	4.00
Nov. 16.	W. W. Strong, books for library.....	751	11.50
Dec. 28.	C. A. Smith Lumber Co., supplies.....	752	5.36
Jan. 21.	Beard Art Co., supplies.....	753	5.00
Jan. 18.	Central Oil-Gas Stove Co., one 2-pound Emerson power scale	754	112.50
Jan. 16.	Stoddard Hardware Co., supplies.....	755	7.61
Jan. 30.	Lyman-Eliel Drug Co., supplies.....	756	2.15
Jan. 14.	Franklin Educational Co., supplies.....	757	11.60
Feb. 28.	Pay roll for February.....	827	1,420.00
Feb. 28.	D. W. Sprague, petty bills.....	828	35.14
Feb. 6.	Gustav E. Stechert, books for library.....	845	7.14
Feb. 5.	Rand, McNally & Co., new physical map of North America..	855	4.00
Feb. 28.	Miller Printing Co., printing.....	856	7.41
Feb. 20.	Glessner & Washburn, one desk and office chair.....	858	32.00
Feb. 6.	Tribune Job Printing Co., letter and memorandum heads...	859	8.75

1895. No. Voucher. Amount.

Feb. 28.	W. R. Appleby, office help and stamps.....	860	5.37
Feb. 8.	E. H. Sargent & Co., apparatus and supplies.....	861	9.91
Feb. 1.	A. C. Bausman, one blank book catalogue.....	862	6.00
Feb. 26.	Stoddard Hardware Co., tools and supplies.....	863	23.22
Feb. 25.	O. H. Peck, apparatus and supplies.....	864	5.54
Feb. 28.	Walter Babcock, painting locker and frame.....	865	6.50
Feb. 25.	H. E. Smith, postage and supplies.....	866	16.43
Feb. 26.	Wheaton, Reynolds & Co., 6 glazed sash.....	867	10.50
Feb. 12.	John F. Wilcox, lumber.....	868	29.48
Feb. 13.	Morris & Wilson, drawing table and books.....	869	14.20
Feb. 25.	Electrical Engineering Co., repairs.....	870	24.00
Feb. 20.	Glessner & Washburn, furniture.....	871	32.00
Feb. 25.	W. S. Nott Co., tools and machinery.....	872	117.38
Feb. 12.	New England Water Works Association, books for library..	873	6.00
Feb. 12.	Association of Engineering Societies, books for library.....	874	12.50
Mar. 4.	W. R. Hoag, postage, express and books for library.....	875	10.40
Feb. 23.	Weston Electric Instrument Co., one water meter.....	876	63.00
Feb. 22.	Bradbury-Stone Electric Storage Co., apparatus.....	877	25.00
Nov. 17.	Richards & Co., apparatus and supplies.....	878	25.20
Dec. 18.	Minneapolis Photo Supply Co., supplies.....	879	6.12
Feb. 16.	O. H. Peck, photo supplies.....	880	16.39
Dec. 31.	C. W. Hall, postage, express and supplies.....	939	10.69
Jan. 26.	D. W. Sprague, pay roll, work on repairs.....	941	53.11
Feb. 2.	D. W. Sprague, pay roll, work on repairs.....	942	37.88
Feb. 9.	D. W. Sprague, pay roll, work on repairs.....	943	38.25
Feb. 16.	D. W. Sprague, pay roll, work on repairs.....	944	30.00
Mar. 2.	D. W. Sprague, pay roll, work on repairs.....	945	10.50
Mar. 28.	D. W. Sprague, gas, freight and express, postage and miscellaneous	946	39.16
Mar. 31.	Pay roll for March.....	953	1,395.00
Mar. 31.	D. W. Sprague, petty bills.....	954	27.83
April 1.	University Press, printing.....	966	1.25
Mar. 25.	John A. Schlener & Co., stationery.....	971	2.40
Mar. 15.	Richards & Co., apparatus and supplies.....	976	52.55
April 3.	A. W. Farnsworth, labor.....	977	14.00
Mar. 16.	Geological Publishing Co., Engineering Magazine, 1894-95....	979	6.00
Mar. 18.	Crane & Ordway Co., plumbing.....	980	11.85
Feb. 11.	Queen & Co., apparatus and instruments.....	981	10.05
Mar. 16.	National Lead Co., 200 pounds glass house lead.....	982	11.50
Mar. 6.	Glessner & Washburn, 3 shades.....	983	5.25
Mar. 6.	Beard Art Co., furniture.....	984	13.10
Mar. 16.	Keuffel & Esser Co., instruments.....	985	35.00
Mar. 23.	E. O. Parker, 11,428 pounds moulding sand.....	986	10.00
Mar. 19.	Minneapolis Office and School Furniture Co., furniture.....	987	45.00
Mar. 29.	Geo. D. Shepardson, postage, express and supplies.....	988	8.69
Mar. 1.	Denver Fire Clay Co., tools and machinery.....	989	52.16
Mar. 29.	Morris Q. Wilson, books for library.....	990	62.73
Mar. 9.	C. A. Erickson, labor.....	991	5.50
Dec. 21.	American Inst. of Electric Engineers, Vol. 12, 1895.....	992	5.00
April 26.	D. W. Sprague, gas, freight, express, and miscellaneous....	1035	9.64
April 30.	Pay roll for April.....	1044	1,395.00
April 30.	D. W. Sprague, petty bills.....	1045	23.70
April 4.	Eugene Smith, general fittings.....	1049	10.00
Mar. 6.	Glessner & Washburn, 6 window shades.....	1051	9.00
April 20.	Northwestern Fuel Co., 2,000 pounds of coke.....	1058	7.60
April 12.	Gustav E. Stechert, books for library.....	1070	21.85
April 27.	Geo. D. Shepardson, supplies.....	1071	25.01
April 19.	Electrical Engineering Co., supplies.....	1072	12.43
April 29.	Morris & Wilson, books for library.....	1073	118.70
April 23.	Stoddard Hardware Co., tools and supplies.....	1074	21.46
April 25.	The Beard Art Co., 2 photo frames.....	1075	6.80
May 7.	F. W. Springer, salaries of employes.....	1119	50.00
Jan. 30.	W. R. Hoag, books.....	1121	10.50
Jan. 30.	H. E. Smith, books.....	1122	62.45
May 31.	D. W. Sprague, gas, freight and express, miscellaneous.....	1124	11.67
May 31.	Pay roll for May.....	1138	1,395.00
May 31.	D. W. Sprague, petty bills.....	1139	10.85
April 30.	W. K. Morison & Co., supplies.....	1147	4.82
May 16.	Gustav E. Stechert, books for library.....	1152	4.50
May 30.	Northwestern Fuel Co., fuel.....	1154	21.45
May 8.	Glessner & Washburn, 3 shades.....	1170	5.25
April 29.	Morris & Wilson, books for library.....	1171	29.38
May 6.	The Ashcroft Manufacturing Co., repairs.....	1172	8.75
May 3.	Electrical Engineering Co., apparatus and instruments.....	1173	10.46
April 4.	Janney, Semple & Co., supplies.....	1174	29.31
April 11.	Charles A. Sterlinger & Co., one vise.....	1175	9.00
May 14.	Stoddard Hardware Co., tools and supplies.....	1176	6.37
April 4.	Lintges, Connells & Co., tools.....	1177	24.80
April 9.	Northwestern Foundry, supplies.....	1178	30.00

1895.		No. Voucher.	Amount.
April 29.	F. G. McMillan, repairs.....	1179	25.95
April 27.	Engineers' Annual, advertising.....	1180	15.00
April 27.	Burtis & Howard, one Mather dynamo.....	1181	402.00
May 25.	W. S. Nott Company, dynamo, belt and labor.....	1182	26.33
May 14.	Goodnow & Lawther, 4,000 pounds nut and coke.....	1183	16.20
June 28.	D. W. Sprague, gas, freight and express, and miscellaneous.....	1247	8.94
June 30.	Pay roll for June.....	1252	1,345.00
June 30.	D. W. Sprague, petty bills.....	1253	10.73
May 1.	Glessner & Washburn, furniture.....	1263	9.00
June 26.	University Press, printing.....	1265	6.50
May 17.	Electrical Engineering Co., apparatus.....	1272	5.31
June 8.	W. S. Nott Company, repairing belt.....	1275	1.00
May 31.	W. K. Morison & Co., tools and machinery.....	1280	181.87
April 25.	Borden, Selleck & Co., apparatus.....	1281	22.75
May 3.	C. W. Hall, labor, postage and supplies.....	1282	39.30
May 28.	Minneapolis General Electric Co., machinery and supplies..	1283	37.68
Feb. 22.	The Gillette-Herzog Mnfg. Co., equipment.....	1284	78.50
May 8.	Prof. A. J. Moses, supplies.....	1285	50.00
May 31.	Minneapolis Photo Supply Co., supplies.....	1286	24.84
April 10.	J. G. Swahn's Sons, suplies.....	1287	16.32
June 29.	Minneapolis General Electric Co., supplies.....	1288	5.00
May 31.	Wm. R. Appleby, labor and miscellaneous.....	1289	17.83
July 25.	D. W. Sprague, gas, freight and express, and miscellaneous.....	1294	8.03
July 31.	Pay roll for July.....	1323	12.00
Total			<u>\$19,815.91</u>

Geological and Natural History Surveys.

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	Pay roll for July.....	1	\$525.00
May 16.	Houghton, Mifflin & Co., books for library.....	23	25.00
June 6.	Beard Art and Stationery Co., 10 frames.....	26	10.00
June 7.	Minneapolis Paper Co., felt, print and manilla paper.....	30	60.89
June 27.	N. H. Winchell, salaries of employes and miscellaneous.....	39	140.05
July 31.	E. B. Johnson, freight.....	82	.77
July 16.	Tribune Job Printing Co., envelopes and note heads.....	83	6.85
July 7.	S. B. Loye & Sons, 20 trunk straps.....	87	10.00
June 16.	L. C. Lawrence, hire of team 4 days.....	96	10.00
July 31.	L. H. Chapman, salary of employes.....	97	45.00
July 28.	Wm. Folwell, Jr., salary of rodman.....	98	12.00
July 5.	A. W. Campebl, livery hire.....	99	21.00
July 31.	Noah Johnson, salary of employes.....	100	73.33
July 31.	N. H. Winchell, salaries of employes, postage and supplies..	102	197.34
Aug. 31.	Pay roll for month of August, 1894.....	145	450.00
Aug. 31.	D. W. Sprague, postage.....	146	.44
Sept. 3.	Conway MacMillan, field work, July and August.....	164	140.00
Aug. 3.	Gustav E. Stechert, books for library.....	167	45.98
Sept. 1.	Conway MacMillan, expenses incurred on the botanical survey field work at Lake of the Woods, season of 1894.....	172	300.00
Sept. 1.	Edmund P. Sheldon, supplies for Lake of the Woods expedition, and salary for August and September.....	168	85.15
Aug. 9.	Noah Johnson, services on topographical survey.....	174	15.97
Aug. 31.	C. P. Jones, services on topographical survey.....	175	45.00
Aug. 31.	L. H. Chapman, services on topographical survey.....	176	45.00
Aug. 31.	J. H. Boland, services on topographical survey.....	177	27.58
Aug. 3.	A. W. Campbell, livery hire, topographical survey.....	178	6.00
Aug. 31.	N. H. Winchell, salaries of employes, freight and transportation, postage and supplies.....	181	144.59
Sept. 30.	Pay roll for September.....	215	475.00
Sept. 30.	D. W. Sprague, freight and express.....	216	43.94
Aug. 30.	Morris & Wilson, books for library.....	235	7.91
Sept. 25.	Gustav E. Stechert, books for library.....	241	126.83
Sept. 20.	R. B. Lees, putting up shelving.....	244	4.20
Sept. 21.	A. A. Heller, 240 species of Texas herbarium specimens....	245	35.70
Sept. 25.	Henry Nachtrieb, salaries employes, and supplies.....	246	77.47
Mar. 28.	C. G. Pringle, one set Mexican plants of 1893.....	247	25.00
Sept. 11.	L. H. Chapman, salaries of employes.....	266	16.50
Sept. 10.	J. A. Bohland, salaries of employes.....	267	15.00
Sept. 10.	C. P. Jones, salaries of employes.....	268	15.00
Aug. 31.	W. R. Hoag, freight, transportation and miscellaneous.....	269	28.52

1894.		No. Voucher.	Amount.
Sept. 30.	W. R. Hoag, freight, transportation and miscellaneous.....	217	54.00
Sept. 3.	N. H. Winchell, salaries of employes, and equipment.....	277	101.50
Oct. 31.	Pay roll for October.....	325	600.00
Oct. 31.	D. W. Sprague, freight and stamps.....	326	1.60
Oct. 30.	Leslie & McAfee, one-half ream paper cut 5¾x8½.....	337	1.40
Sept. 22.	Geo. B. Aiton, 6,500 herbarium specimens.....	341	175.00
Oct. 31.	D. W. Sprague, petty bills.....	344	3.50
Oct. 31.	Tribune Job Printing Co., 1,000 letter heads.....	358	3.25
Oct. 30.	N. H. Winchell, salaries of employes, and miscellaneous....	381	427.26
Nov. 30.	Pay roll for November.....	472	506.25
Nov. 30.	D. W. Sprague, freight and stamps.....	473	2.11
Nov. 20.	Clara E. Cummings, supplies.....	501	6.12
Nov. 23.	Noyes Bros. & Cutler, supplies.....	504	22.75
Nov. 22.	J. B. Ellis, books for library.....	509	7.16
Nov. 30.	D. W. Sprague, petty bills.....	511	3.50
Nov. 27.	Thompson & Lees, general fittings.....	560	2.05
Sept. 22.	J. H. Sandberg, M. D., supplies.....	562	12.88
Dec. 29.	D. W. Sprague, freight and express and miscellaneous.....	567	4.03
Nov. 22.	Gustav E. Stechert, books for library.....	568	26.68
Nov. 27.	C. L. Herrick, salary of assistants.....	542	200.00
Dec. 31.	Pay roll for December.....	579	506.25
Jan. 30.	D. W. Sprague, miscellaneous.....	580	5.28
Dec. 20.	Morris & Wilson, books for library.....	578	44.88
Dec. 21.	A. J. Dahl & Co., binding 59 volumes for library.....	605	54.05
Oct. 16.	Oswald Weigel, books for library.....	616	155.29
Nov. 30.	N. H. Winchell, miscellaneous.....	631	135.93
Dec. 28.	N. H. Winchell, salaries of employes, and miscellaneous....	632	200.59
Dec. 29.	Tribune Job Printing Co., printing.....	633	3.50
Jan. 31.	Pay roll for January.....	714	506.25
Feb. 28.	D. W. Sprague, freight, express and miscellaneous.....	715	27.71
Dec. 31.	James W. Day, 3,200 pounds of ice.....	730	6.64
Nov. 13.	Leslie & McAfee, 5 reams 24 troga folio, cut.....	767	9.60
1895.			
Jan. 29.	N. H. Winchell, salaries employes and miscellaneous.....	819	107.25
Feb. 28.	Pay roll for February.....	827	506.25
Mar. 2.	Edmund P. Sheldon, postage.....	844	6.90
Jan. 26.	Thomas Howell, 117 botanical specimens.....	850	5.75
Feb. 21.	Leslie & McAfee, stationery.....	851	.81
Feb. 5.	Rand, McNally & Co., one new physical map of North America	855	4.00
Feb. 27.	N. H. Winchell, salaries employes, and supplies.....	884	93.81
Mar. 28.	D. W. Sprague, freight, express and miscellaneous.....	946	2.00
Mar. 31.	Pay roll for March.....	953	506.25
Jan. 10.	Oswald Weigel, books for library.....	973	50.04
Mar. 11.	Harrison & Smith, binding 61 volumes for library.....	975	54.19
Mar. 27.	N. H. Winchell, salaries employes, and supplies.....	998	144.30
April 26.	D. W. Sprague, freight and express and miscellaneous.....	1035	35.90
April 30.	Pay roll for April.....	1044	506.25
April 29.	Ulysses S. Grant, salaries employes, freight, postage and miscellaneous	1120	115.49
May 31.	D. W. Sprague, freight and express and miscellaneous.....	1124	22.56
May 31.	Pay roll for May.....	1138	506.25
May 25.	Tribune Job Printing Co., printing.....	1158	3.75
May 29.	U. S. Grant, salaries employes, freight, postage and miscellaneous	1184	65.25
May 29.	Henry F. Nachtrieb, stamps and miscellaneous.....	1186	11.54
June 30.	Pay roll for June.....	1252	506.25
Mar. 19.	A. H. Curtiss, supplies.....	1274	30.00
June 28.	U. S. Grant, salaries of employes and postage.....	1276	38.37
June 26.	H. F. Nachtrieb, supplies.....	1277	76.47
Feb. 12.	A. Isabel Mulford, supplies.....	1273	38.72
July 25.	D. W. Sprague, labor (work in herbarium).....	1294	18.00
July 31.	Pay roll for July.....	1323	325.00
Total			\$10,912.37

COLLEGE OF LAW.

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
June 30.	Walter Babcock, repairs per contract.....	7	\$160.00
July 31.	E. B. Johnson, gas bill for month of June.....	82	1.92
Aug. 31.	D. W. Sprague, petty bills for August.....	209	1.50

1894.		No. Voucher.	Amount.
Sept. 30.	Pay roll for September.....	215	769.66
Sept. 30.	D. W. Sprague, gas bill.....	216	1.12
Sept. 28.	Walter Babcock, repairs.....	230	10.00
Sept. 21.	Tribune Job Printing Co., one 400-page register.....	234	10.50
Sept. 15.	Lawyers' Co-operative Publishing Co., books for library....	276	6.00
Oct. 31.	Pay roll for October.....	325	770.00
Oct. 31.	D. W. Sprague, gas bill.....	326	11.84
Oct. 31.	D. W. Sprague, petty bills.....	344	3.00
Sept. 4.	J. J. Tobin & Co., one No. 75 Carey safe.....	382	45.00
Feb. 27.	James Bladon & Co., gas fixtures.....	383	13.50
Mar. 30.	R. B. Lees, one Bracket 2-minute oat complete.....	384	5.00
July 30.	St. Paul Book and Stationery Co., repairs blackboards.....	385	5.00
Sept. 11.	Minneapolis Book Manufacturing Co., binding law books...	386	17.50
Nov. 30.	Pay roll for November.....	472	690.00
Nov. 30.	D. W. Sprague, gas bill, freight and express, miscellaneous.	473	50.40
Nov. 26.	Tribune Job Printing Co., printing.....	488	1.00
Nov. 30.	D. W. Sprague, petty bills.....	511	1.50
Dec. 29.	D. W. Sprague, gas bill for December.....	567	37.44
Dec. 31.	Pay roll for December.....	579	690.00
Jan. 30.	D. W. Sprague, gas bill for January.....	580	38.72
Dec. 29.	Tribune Job Printing Co., 1,000 letter heads.....	633	4.50
Jan. 30.	W. S. Pattee, books for library.....	699	399.00
Dec. 31.	D. W. Sprague, petty bills.....	702	2.25
Jan. 31.	Pay roll for January.....	714	890.00
Feb. 28.	D. W. Sprague, gas and miscellaneous.....	715	5.50
Jan. 23.	University Press, printing.....	732	5.75
Dec. 21.	Little, Brown & Co., books for library.....	758	41.00
Jan. 19.	John A. Schlener & Co., one office journal.....	760	1.50
Feb. 28.	Pay roll for February.....	827	1,010.00
Feb. 28.	D. W. Sprague, petty bills.....	828	1.51
Feb. 27.	Brown & Haywood, repairs.....	839	3.83
Feb. 26.	Tribune Job Printing Co., printing.....	841	1.25
Feb. 1.	Bell Electric Co., electric bells in law school.....	881	10.00
Aug. 18.	Minneapolis Office and School Furniture Co., furniture.....	882	31.50
1895.			
Feb. 27.	A. B. Farnham, binding law books.....	883	5.25
Mar. 28.	D. W. Sprague, gas bill for February.....	946	70.88
Mar. 31.	Pay roll for March.....	953	1,340.00
April 1.	University Press, printing.....	966	23.00
Mar. 1.	Brown, Treacy & Co., books for library.....	994	10.00
Mar. 18.	Minneapolis Office and School Furniture Co., furniture.....	995	30.00
Mar. 13.	The Edward Thompson Co., books for library.....	996	6.00
April 26.	D. W. Sprague, gas bill for March.....	1035	24.83
April 30.	Pay roll for April.....	1044	1,190.00
Mar. 6.	Glessner & Washburn, 2 shades.....	1051	1.00
May 17.	Tribune Job Printing Co., 500 1c.-wrappers.....	1084	5.50
May 31.	D. W. Sprague, gas bill for April.....	1124	21.84
May 31.	Pay roll for May.....	1138	1,280.00
May 17.	Tribune Job Printing Co., printing 500 1c.-wrappers.....	1151	1.25
April 13.	A. B. Farnham, binding 10 volumes.....	1185	7.50
May 8.	Glessner & Washburn, 2 shades.....	1241	1.00
June 28.	D. W. Sprague, gas, postage and miscellaneous.....	1247	38.94
June 30.	Pay roll for June.....	1252	550.00
June 30.	D. W. Sprague, petty bills.....	1253	4.25
July 25.	D. W. Sprague, gas bill for June.....	1294	2.34
July 31.	Pay roll for July.....	1323	33.88
Total			\$10,395.65

COLLEGE OF MEDICINE AND SURGERY.

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	D. W. Sprague, petty bills for June and July.....	2	\$6.75
June 18.	Tribune Job Printing Co., printing and furnishing 2,400 1c.-wrappers	21	29.40
June 27.	H. M. Bracken, assistance in class rooms.....	40	12.50
July 31.	E. B. Johnson, gas bill for month of June.....	82	7.20
Aug. 1.	Northwestern Telephone Exchange, service from August 1, to Sept. 1, 1894.....	103	6.00
June 8.	S. S. White Dental Mnfg. Co., advertisement in Dental Cosmos	105	50.00

1895.		No. Voucher.	Amount.
July 14.	Minneapolis Gas Light Co., gas pipe and fittings.....	106	42.10
July 1.	Northwestern Telephone Exchange, service from July 1 to Aug. 1, 1894.....	107	6.00
Aug. 31.	D. W. Sprague, gas and postage.....	146	2.42
Aug. 28.	The Dickinson Co., 60 yards crash and muslin.....	165	5.35
Aug. 26.	R. B. Lees, lockers and general fittings.....	173	80.76
Sept. 1.	Northwestern Telephone Exchange, service from September 1st to October 1st.....	182	6.00
Aug. 28.	W. T. Keener Co., books for library.....	183	6.50
Aug. 31.	D. W. Sprague, petty bills for August.....	209	1.50
Sept. 30.	Pay roll for month of September.....	215	2,155.83
Sept. 30.	D. W. Sprague, gas, labor, miscellaneous.....	216	34.89
Sept. 30.	D. W. Sprague, petty bills for September.....	232	10.35
Sept. 21.	Tribune Job Printing Co., 150 postal cards and printing....	234	2.50
Sept. 1.	Noyes Bros. & Cutler, supplies.....	278	96.27
Sept. 24.	Northwestern Lancet, advertising.....	279	60.00
Oct. 31.	Pay roll for October.....	325	2,212.50
Oct. 31.	D. W. Sprague, gas, telephone, labor and miscellaneous....	326	63.98
Nov. 1.	Thompson & Lees, general fittings.....	338	265.25
Oct. 31.	D. W. Sprague, petty bills.....	344	9.35
Oct. 9.	E. Cooley, hay, oats and feed.....	345	9.31
Oct. 19.	Lyman-Eliel Drug Co., supplies.....	353	3.20
Oct. 31.	Tribune Job Printing Co., printing.....	353	33.30
Sept. 26.	R. B. Lees, general fittings.....	362	11.06
Sept. 29.	W. K. Morison & Co., dental supplies.....	372	35.83
Oct. 16.	Stoddard Hardware Co., tools and supplies.....	379	1.23
May 12.	Whitall, Totum & Co., apparatus and supplies.....	387	112.05
Oct. 17.	W. T. Keener Co., medical books.....	388	10.00
Sept. 6.	Johnson & Shaw, supplies (407 pounds soda).....	389	40.90
Oct. 11.	C. J. Bell, supplies (8 dozen files).....	390	5.60
Oct. 18.	W. A. Olmsted, 7 dozen prep. jars.....	391	11.90
Nov. 1.	M. F. Patterson, dental supplies.....	392	135.63
Oct. 29.	Noyes Bros. & Cutler, supplies.....	393	114.75
Oct. 12.	Eimer & Amend, apparatus and supplies.....	394	624.90
Oct. 10.	G. F. Kriesel, one stand and vise.....	395	15.00
Oct. 26.	Chas. T. Leonard, awnings and shades.....	396	28.00
Oct. 26.	Morgan, Hastings & Co., 3 ounces gold foil.....	397	75.00
Oct. 20.	Leighton Bros., 300 pamphlets, 8 pages.....	398	11.00
Oct. 31.	Minneapolis Pharmacy Co., advertisement.....	399	12.50
Oct. 1.	The Hahnemannian Monthly, advertisement 3 months.....	400	15.00
Oct. 6.	Medical Century, advertisement 3 months.....	401	15.00
Oct. 3.	A. P. Williamson, 250 2c.-stamps.....	402	5.00
Nov. 1.	Thompson & Lees, 50 book rests.....	403	15.00
Sept. 29.	Miller Printing Co., 4 certificate books.....	404	6.00
Oct. 6.	Simonson Bros. Manufacturing Co., furniture.....	405	10.00
Oct. 31.	F. J. Wulling, books and supplies.....	406	9.30
Oct. 22.	Crolius, Tucker & Allen Co., apparatus.....	407	14.90
Nov. 30.	Pay roll for November.....	472	2,225.00
Nov. 30.	D. W. Sprague, express and freight, gas, labor, miscellaneous	473	34.28
Oct. 24.	Minneapolis Electric Construction Co., repairs.....	487	9.63
Nov. 26.	Tribune Job Printing Co., printing.....	488	10.25
Dec. 1.	Northwestern Telephone Exchange, service for December...	489	6.00
Nov. 20.	M. F. Patterson, dental supplies.....	490	303.20
Dec. 1.	Francis Ramaley, salary as assistant.....	494	50.00
Nov. 27.	Cody-Hineline Co., plumbing.....	503	11.00
Oct. 24.	Charles Truax, Greene & Co., apparatus.....	507	6.60
Sept. 29.	Journal of American Medical Association, 1/8 page advertise- ment	508	50.00
Nov. 30.	D. W. Sprague, petty bills.....	511	2.90
Nov. 27.	Thompson & Lees, general fittings.....	560	25.45
Nov. 27.	Thompson & Lees, general fittings.....	563	65.95
Dec. 29.	D. W. Sprague, gas, express and miscellaneous.....	567	116.13
Dec. 31.	Pay roll for December.....	579	2,225.00
Jan. 30.	D. W. Sprague, gas, express, labor and miscellaneous.....	580	107.16
Dec. 27.	Leslie & McAfee, stationery.....	582	11.62
Dec. 24.	University Press, printing.....	597	1.50
Jan. 1.	Northwestern Telephone Exchange, service for January.....	634	6.00
Oct. 31.	D. O. Haynes & Co., books for library.....	636	24.33
Nov. 22.	Lehn & Fink, supplies.....	637	35.76
Dec. 26.	Thompson & Lees, general fittings.....	638	16.75
Nov. 30.	F. J. Wulling, miscellaneous.....	639	9.50
Dec. 31.	Noyes Bros. & Cutler, apparatus and supplies.....	640	150.28
Dec. 12.	Bausch & Lomb Optical Co., instruments.....	641	215.03
Dec. 7.	Minneapolis Office and School Furniture Co., furniture.....	642	140.00
Nov. 20.	James Bladon & Co., furniture.....	643	11.00
Nov. 28.	Eimer & Amend, supplies.....	644	12.15
Oct. 20.	Eimer & Amend, supplies.....	645	10.47
Dec. 26.	R. B. Lees, general fittings.....	646	5.00
Sept. 29.	Cody-Hineline Co., plumbing.....	647	5.00
Nov. 27.	Thompson & Lees, general fittings.....	648	5.15

1895.		No. Voucher.	Amount.
Dec. 1.	Dr. C. M. Bailey, supplies.....	649	41.45
Dec. 4.	Guranty Machine Co., repairs.....	650	8.75
Nov. 20.	Chas. T. Leonard, furniture.....	651	9.75
Dec. 31.	D. W. Sprague, petty bills.....	702	9.80
Jan. 31.	Pay roll for January.....	714	2,225.00
Feb. 28.	D. W. Sprague, gas, express, labor, miscellaneous.....	715	98.87
Jan. 31.	D. W. Sprague, petty bills.....	729	5.95
Dec. 31.	James W. Day, 20,250 pounds of ice.....	730	40.50
Dec. 31.	W. K. Morison & Co., 10 pounds bar tin.....	748	3.00
Dec. 1.	M. F. Patterson, dental supplies.....	759	124.61
Jan. 19.	John A. Schlener & Co., stationery.....	760	4.50
Dec. 22.	Northwestern Machine and Cycle Works, one rolling machine	761	12.50
Dec. 14.	W. T. Keener Co., books for library.....	762	8.25
Feb. 1.	Northwestern Telephone Exchange, service for February....	763	6.00
Nov. 1.	Minneapolis Office and School Furniture Co., 74 stools.....	764	57.50
Jan. 8.	C. A. Erickson, general fittings.....	765	40.00
Jan. 8.	Eugene Smith, general fittings.....	766	205.00
Nov. 27.	Richard Kny & Co., supplies.....	769	370.49
Jan. 1.	Boston Medical and Surgical Journal, library.....	770	10.00
Dec. 12.	E. Leitz, apparatus and instruments.....	771	126.00
Nov. 15.	Hofflin-Thompson Drug Co., gasoline.....	772	7.00
Feb. 28.	Pay roll for February.....	827	2,225.00
Feb. 28.	D. W. Sprague, petty bills.....	828	5.40
Feb. 26.	Tribune Job Printing Co., printing.....	841	4.00
Feb. 21.	Leslie & McAfee, stationery.....	851	1.60
Mar. 1.	Northwestern Telephone Exchange, service for March.....	886	6.00
Feb. 27.	Tribune Job Printing Co., stationery and printing.....	889	5.50
Nov. 30.	Noyes Bros. & Cutler, supplies.....	890	9.72
Feb. 12.	H. L. Staples, M. D., professional services medical dept....	891	100.00
Feb. 26.	F. J. Wulling, stamps, express and petty supplies.....	894	10.40
Feb. 8.	Noyes Bros. & Cutler, supplies.....	895	22.44
Feb. 15.	Eimer & Amend, supplies.....	896	58.97
Feb. 28.	Gust. Lagerquist, repairs to elevator.....	937	10.70
Mar. 18.	Noyes Bros. & Cutler, supplies.....	938	9.12
Feb. 28.	Thos. G. Lee, books for library, and supplies.....	940	39.84
Mar. 28.	D. W. Sprague, freight and express, gas, labor and supplies.	946	206.69
Mar. 31.	Pay roll for March.....	953	2,225.00
Mar. 31.	D. W. Sprague, petty bills.....	954	1.50
Mar. 19.	Tribune Job Printing Co., printing.....	965	8.50
Mar. 25.	John A. Schlener & Co., 2,000 labels.....	971	4.00
Mar. 29.	Morris & Wilson, books for library.....	990	10.80
Feb. 20.	Richard Kny & Co., apparatus and instruments.....	999	76.40
Feb. 8.	Queen & Co., supplies.....	1000	7.49
Mar. 26.	Noyes Bros. & Cutler, supplies.....	1001	13.98
Feb. 21.	George Tiemann & Co. instruments.....	1002	48.94
Mar. 19.	Bausch & Lomb Optical Co., supplies.....	1003	10.13
April 1.	Northwestern Telephone Exchange, service for April.....	1004	6.00
Jan. 30.	Stoddard Hardware Co., tools and supplies.....	1005	5.27
Jan. 31.	James Bladon & Co., apparatus.....	1006	5.50
April 1.	Hofflin-Thompson Drug Co., supplies.....	1007	10.25
April 26.	D. W. Sprague, freight and express, gas, labor and supplies..	1035	71.85
April 30.	Pay roll for April.....	1044	2,225.00
April 30.	D. W. Sprague, petty bills.....	1045	8.00
Jan. 26.	Weeber & Kletzin, feed.....	1077	5.25
Mar. 21.	Noyes Bros. & Cutler, supplies.....	1078	128.08
Mar. 27.	Richard Kny & Co., apparatus and instruments.....	1079	99.30
April 27.	Charles T. Leonard, supplies.....	1080	14.00
April 27.	Morris & Wilson, books for library.....	1081	12.00
April 11.	Minneapolis Office and School Furniture Co., one prescrip- tion case.....	1082	85.00
April 16.	Crolius, Tucker & Allen Co., supplies.....	1083	52.97
June 1.	Northwestern Telephone Exchange, service for May.....	1117	6.00
Jan. 1.	R. Alexander, one glass case.....	1123	65.00
May 31.	D. W. Sprague, gas bill and miscellaneous.....	1124	49.08
1895.			
May 31.	Pay roll for May.....	1138	2,225.00
May 31.	D. W. Sprague, petty bills.....	1139	16.33
May 1.	The Dickinson Co., supplies.....	1142	5.07
May 25.	John A. Schlener & Co., stationery.....	1150	3.00
April 20.	Queen & Co., apparatus.....	1187	225.20
April 20.	Noyes Bros. & Cutler, supplies.....	1188	7.75
May 31.	F. J. Wulling, postage and supplies.....	1189	9.36
May 28.	Noyes Bros. & Cutler, supplies.....	1190	19.40
June	W. X. Sudduth, apparatus.....	1191	100.00
June 1.	Northwestern Telephone Exchange, service for June.....	1192	6.00
June 28.	D. W. Sprague, gas bill for June.....	1247	28.80
June 30.	Pay roll for June.....	1252	2,185.00
June 30.	D. W. Sprague, petty bills.....	1253	4.00
May 27.	Weeber & Kletzin, feed.....	1260	1.05

1895.		No. Voucher.	Amount.
June 27.	John A. Schlener & Co., stationery.....	1262	2.75
July 1.	Northwestern Telephone Exchange, service for July.....	1266	6.00
May 31.	Harrison & Smith, printing.....	1269	4.50
June 1.	Francis Ramaley, salaries of employes.....	1271	33.33
April 30.	Webster & Churchill, supplies.....	1290	8.88
June 15.	R. O. Beard, supplies and repairs.....	1291	6.45
April 16.	Noyes Bros. & Cutler, apparatus.....	1292	17.23
July 25.	D. W. Sprague, gas and miscellaneous.....	1294	11.56
July 31.	Pay roll for July.....	1323	30.00
Total.....			<u>\$28,812.37</u>

COLLEGE OF AGRICULTURE.

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	Pay roll for month of July, 1894.....	1	\$723.11
June 1.	H. W. Brewster, postage and repairs.....	31	7.77
June 6.	J. H. Kelly, grading around drill hall.....	32	71.50
June 26.	J. A. Vye, petty supplies.....	41	.64
May 31.	C. A. Smith Lumber Co., lumber for sidewalks.....	51	12.77
June 5.	Boutell Bros., furniture and rent gas stoves.....	54	44.00
June 21.	Hutchins Bros., repairs in chemical laboratory.....	57	5.00
July 26.	J. A. Vye, petty supplies.....	108	1.75
July 6.	P. Howard, repairs, implements and machinery.....	110	5.75
July 7.	Goodyear Rubber Co., 100 feet of hose and couplings.....	112	21.25
July 28.	Held & Gruenhagen, petty hardware supplies.....	113	2.15
July 30.	Northwestern Fuel Co., 4,500 pounds H. V. coal.....	121	9.00
July 16.	C. A. Smith Lumber Co., 1,000 feet white pine lumber.....	127	12.50
Aug. 31.	Pay roll for month of August.....	145	823.92
Aug. 31.	J. A. Vye, stamps and oil.....	185	3.90
Aug. 21.	Noyes Bros. & Cutler, supplies.....	186	1.00
Aug. 28.	Miss J. L. Shepperd, miscellaneous supplies.....	188	21.76
Aug. 30.	Miss J. L. Shepperd, services in summer school.....	189	140.00
Aug. 23.	W. W. Sykes & Co., hose valves and ladders.....	197	74.25
May 4.	Twin City Sidewalk Co., 153 5-9 yards sidewalk and curb....	201	127.35
Sept. 30.	Pay roll for September.....	215	1,391.73
Sept. 27.	J. A. Vye, paper and pump fixtures.....	280	4.76
Sept. 26.	E. W. Backus Lumber Co., lumber for meat house.....	282	309.94
Aug. 31.	W. K. Morison & Co., wire and bolts.....	285	1.83
Sept. 1.	C. L. Moffatt, horseshoeing.....	287	2.00
Sept. 22.	Held & Gruenhagen, miscellaneous hardware.....	288	61.84
Sept. 8.	M. Christianson, 10 barrels cement.....	291	12.25
Sept. 27.	Peter Osborn, labor on meat house.....	294	52.88
Sept. 27.	A. W. Field, labor on meat house and repairs.....	295	80.28
Sept. 27.	Harry Anderson, labor on meat house and station.....	296	52.42
Sept. 27.	C. A. Walsork, labor on meat house and repairs.....	297	48.82
Sept. 15.	Richards & Co., limited supplies.....	298	176.44
Aug. 30.	Northwestern Fuel Co., coal (H. V.).....	304	57.79
Sept. 24.	W. T. Shaw, ammunition and cartage.....	310	5.20
Sept. 24.	Northwestern Lime Co., lime for repairs.....	311	1.25
Oct. 31.	Pay roll for October.....	325	1,049.24
Oct. 31.	Tribune Job Printing Co., 10,000 library slips.....	358	12.00
Oct. 31.	J. A. Vye, freight, express, postage and supplies.....	409	4.85
Oct. 9.	Goodnow & Lawther, 63 9-20 tons pea coal.....	410	317.25
Oct. 23.	J. A. Vye, supplies.....	411	17.01
Oct. 2.	F. A. Fletcher & Co., repairing harness.....	417	3.00
Oct. 17.	Nelson, Tenney & Co., lumber for repairs.....	419	14.85
Oct. 3.	Northwestern Fuel Co., 44,200 pounds stove coal.....	421	138.13
Oct. 24.	Held & Gruenhagen, repairs.....	425	30.87
Sept. 29.	W. K. Morison & Co., tar, felt and paper.....	427	14.44
Sept. 29.	Tribune Job Printing Co., 1,200 receipts (4 books).....	430	6.00
Oct. 9.	John A. Schlener & Co., stationery.....	431	21.30
Sept. 18.	Crane & Ordway Co., repairs.....	432	18.85
Oct. 24.	Leslie & McAfee, stencil and toilet paper.....	435	15.00
Oct. 26.	Peter Osborn, labor, repairing.....	436	19.58
Oct. 11.	New England Carpet Co., one oak secretary.....	437	19.50
Oct. 23.	Marion Hays, labor.....	441	5.25
Oct. 25.	W. H. Brewster, express, postage and miscellaneous.....	445	6.87
Oct. 9.	Ginn & Company, books for library.....	446	29.62
Oct. 10.	G. W. Warner, furniture.....	447	60.10

1894.		No. Voucher.	Amount.
Oct. 19.	American Book Co., books for library.....	448	17.28
Oct. 10.	Farm, Stock and Home, books for library.....	449	17.70
Oct. 20.	E. W. Backus Lumber Co., building and repairs.....	451	41.85
Oct. 26.	Harry Anderson, labor, repairs.....	452	56.25
Oct. 15.	L. L. Solem, painting and calcimining.....	454	48.75
Oct. 17.	Janney, Semple & Co., B. S. coal, iron and steel.....	455	24.46
Oct. 15.	St. Anthony Furniture Co., 4 dining tables.....	456	21.60
Oct. 5.	Northwestern Lime Co., cement.....	460	17.80
Oct. 23.	Brooks Bros., lumber for builing and repairs.....	461	60.86
Oct. 20.	C. L. Moffatt, horseshoeing and repairs.....	462	1.50
Nov. 30.	Pay roll for November.....	472	1,542.33
Nov. 27.	J. A. Vye, express and labor.....	512	7.45
Nov. 12.	Noyes Bros. and Cutler, supplies.....	513	8.54
Nov. 27.	Peter Osbloom, labor.....	520	13.44
Oct. 23.	Gustav E. Stechert, books for library.....	521	2.75
Nov. 24.	Arthur W. Field, labor and repairs.....	522	15.00
Nov. 7.	J. A. Vye, calcimining and painting.....	525	69.45
Oct. 8.	Leslie & McAfee, stationery.....	527	4.20
Nov. 17.	American Book Co., books for library.....	528	5.76
Nov. 26.	H. W. Brewster, furniture and miscellaneous.....	529	9.47
Nov. 8.	Rural Publishing Co., books for library.....	530	14.40
Oct. 30.	Morris & Wilson, books for library.....	531	12.60
Oct. 23.	John Wiley & Sons, books for library.....	532	10.12
Nov. 23.	St. Paul Book and Stationery Co., books for library.....	533	12.84
Nov. 1.	Howard, Farwell & Co., books for library.....	534	14.80
Oct. 20.	Tribune Job Printing Co., stationery and printing.....	535	17.75
Sept. 26.	R. C. Clark, inspecting 2 boilers.....	536	12.00
Nov. 27.	Boutell Bros., equipment.....	540	26.55
Nov. 9.	Aldrich & Co., 6 tables.....	544	3.90
Nov. 27.	Thompson & Lees, fittings for museum.....	552	81.28
Nov. 24.	Held & Gruenhagen, miscellaneous.....	553	34.65
Nov. 1.	Northwestern Farmer, printing.....	554	16.40
Nov. 21.	Fairbanks, Morse & Co., equipment of platform scale.....	556	26.92
Oct. 29.	St. Anthony Furniture Co., furniture.....	557	11.50
Nov. 13.	Wyckoff, Seamans & Benedict, supplies.....	558	3.25
Oce. 31.	Wyckoff, Seamans & Benedict, stationery.....	559	8.80
Nov. 15.	Northwestern Fuel Co., coal and wood.....	561	340.75
Oct. 2.	S. E. Olson & Co., furniture.....	566	168.76
Nov. 27.	Harry Anderson, salary employes.....	519	16.87
Dec. 31.	Pay roll for December.....	579	1,602.03
Dec. 29.	Tribune Job Printing Co., printing.....	633	22.75
Dec. 27.	J. A. Vye, freight, express, postage and supplies.....	652	10.85
Dec. 5.	Fairbanks, Morse & Co., one double dial scale.....	670	18.00
Dec. 12.	Schuneman & Evans, 7 shades and rollers.....	677	6.10
Dec. 26.	Oscar L. Lienau, 9 vocal lessons.....	682	18.00
Nov. 26.	Robert Clarke Co., books for library.....	683	23.76
Dec. 14.	Janney, Semple & Co., suplies, repairs and equipments.....	686	27.05
Nov. 28.	Howard, Farwell & Co., books for library.....	687	5.40
Nov. 30.	W. M. Hays, freight and transportation.....	688	61.23
Dec. 19.	Northwestern Fuel Co., wood and coal.....	689	492.93
Dec. 10.	Natural Science Association, books for library.....	691	22.50
Dec. 13.	Gustav E. Stechert, books for library.....	692	72.24
Dec. 27.	H. W. Brewster, freight and postage.....	693	6.38
Dec. 18.	Hadley & Vawter, 2,000 mdse. envelopes.....	694	5.42
Nov. 14.	W. J. Dyer & Bro., books for library.....	695	5.40
Oct. 30.	Standard Oil Co., gasoline.....	696	20.19
Dec. 19.	James Bladon & Co., 2 4-light oil lamps.....	697	20.60
Dec. 31.	D. W. Sprague, petty bills.....	702	1.80
Jan. 30.	Pay roll for January.....	714	1,504.83
Jan. 31.	D. W. Sprague, petty bills.....	729	1.80
Jan. 25.	Tribune Job Printing Co., 500 cards.....	750	2.00
Jan. 28.	J. A. Vye, freight, express and miscellaneous supplies.....	773	29.21
Jan. 15.	John A. Schlener & Co., stationery.....	774	5.26
Dec. 29.	Minneapolis Tribune Co., one atlas.....	775	5.00
Jan. 11.	Harrison & Smith, 5,000 labels and 500 cards.....	777	8.00
Jan. 8.	Morris & Wilson, books for library.....	779	9.65
Jan. 30.	H. W. Brewster, express, postage, books and supplies.....	782	22.30
Jan. 23.	Husby Bros., mounting stands for museum.....	783	35.00
Jan. 29.	Charles Weinhausen & Co., 800 paper boxes.....	784	10.00
Nov. 30.	Fred Kaempfer, taxidermist's materials.....	785	15.15
Jan. 16.	Gustav E. Stechert, books for library.....	786	120.87
Jan. 30.	A. Lindig, 3,770 pounds of hay.....	787	16.96
Jan. 17.	W. F. Porter & Co., repairs to steam plant.....	789	5.95
Jan. 17.	W. K. Morison & Co., paint and coat and hat hooks.....	791	3.05
Jan. 12.	Maynard, Merrill & Co., books for library.....	792	7.76
Jan. 2.	Ginn & Co., books for library.....	793	12.00
Jan. 4.	W. W. Rawson & Co., books for library.....	796	20.00
Dec. 28.	Alfred L. Robbins & Co., apparatus and instruments.....	797	181.50
Dec. 20.	Minneapolis Printing Co., printing.....	798	8.50

		No. Voucher.	Amount.
1894.			
Jan. 28.	Peter Osbloom, labor.....	799	19.57
Jan. 28.	Peter Englund, labor.....	800	6.52
Jan. 2.	Noyes Bros. & Cutler, supplies.....	801	17.83
Jan. 22.	J. Gutzwiller, Jr., stationery.....	804	44.38
Jan. 24.	Bausch & Lomb Optical Co., apparatus and instruments.....	807	97.83
Dec. 18.	R. Ridgway, books for library.....	814	45.00
Jan. 17.	Janney, Semple & Co., supplies.....	817	37.43
Jan. 9.	American Book Co., books for library.....	818	29.09
Feb. 28.	Pay roll for February.....	827	1,529.61
Feb. 15.	Louis Dreka, 30 diplomas.....	831	37.50
Feb. 28.	J. A. Vye, repairs and supplies.....	897	12.82
Feb. 25.	John A. Schlener & Co., stationery.....	905	3.40
Jan. 14.	M. Roeller & Co., repairs.....	906	7.45
Feb. 7.	Gustav E. Stechert, books for library.....	907	103.64
1895.			
Feb. 26.	Held & Gruenhagen, repairs and supplies.....	909	10.89
Feb. 26.	Brooks Bros., bill of lumber.....	911	84.43
Feb. 15.	Northwestern Fuel Co., fuel.....	912	260.51
Jan. 26.	Northwestern Fuel Co., fuel.....	913	259.21
Jan. 9.	Tribune Job Printing Co., stationery and supplies.....	930	17.50
Jan. 9.	Tribune Job Printing Co., stationery and supplies.....	930	17.50
Feb. 11.	American Book Co., books for library.....	915	5.28
Jan. 17.	St. Paul Book and Stationery Co., books for library.....	916	10.47
Dec. 14.	Bausch & Lomb Optical Co., apparatus and instruments.....	917	106.38
Dec. 24.	George B. Cresson, books for library.....	918	6.00
Feb. 23.	H. C. Boysen & Co., one mimeograph and supplies.....	922	17.40
Feb. 16.	Janney, Semple & Co., supplies.....	928	8.32
Feb. 16.	Leslie & McAfee, one-half case toilet paper.....	927	5.25
Jan. 25.	Held & Gruenhagen, repairs and supplies.....	931	31.61
Mar. 31.	Pay roll for March.....	953	1,564.92
Mar. 31.	D. W. Sprague, petty bills.....	954	4.70
Mar. 21.	Rickard & Gruman, embossing certificates.....	956	12.50
Mar. 13.	Association of American Agricultural Colleges, membership dues 1894-5.....	964	10.00
Mar. 30.	Miller Printing Co., 5,500 Agricultural School catalogues....	969	12.50
Mar. 28.	J. A. Vye, express and supplies.....	1009	5.80
Feb. 27.	Brooks Bros., one piece oak lumber.....	1010	.72
Mar. 27.	J. A. Vye, salaries employes and miscellaneous.....	1013	47.50
Mar. 19.	Northwestern Fuel Co., fuel.....	1014	147.91
Mar. 25.	M. H. Reynolds, express, telegrams and supplies.....	1020	1.58
Mar. 18.	Minneapolis Paper Co., one ream 25x38 book, cut.....	1021	2.75
Mar. 26.	H. W. Brewster, freight, express and postage.....	1022	13.01
Dec. 3.	Morris & Wilson, books for library.....	1023	12.96
Mar. 25.	Oscar L. Lienau, salaries of employes.....	1028	28.00
Mar. 25.	S. B. Green, freight, express and supplies.....	1029	6.30
Mar. 23.	Janney, Semple & Co., 2,000 pounds B. S. coal.....	1034	9.20
April 30.	Pay roll for April.....	1044	957.00
April 1.	Danz's Orchestra, commencement exercises.....	1052	30.00
April 25.	W. H. Gruenhagen, supplies, repairs and miscellaneous.....	1086	18.77
April 10.	Northwestern Fuel Co., fuel.....	1087	18.36
April 22.	Boarding department School of Agriculture, 6 months' board in full payment for care of Pendergast Hall.....	1088	66.70
April 29.	J. A. Vye, 5 bunting.....	1089	9.00
April 23.	H. W. Brewster, postage, telegraph and repairs.....	1091	9.11
Jan. 26.	Wyckoff, Seamans & Benedict, stationery.....	1092	12.95
Mar. 24.	Tribune Job Printing Co., postage, stationery and printing..	1098	25.50
Mar. 23.	Leslie & McAfee, stationery.....	1108	12.48
Mar. 4.	Archambo & Morse, repairs.....	1110	2.10
May 31.	Pay roll for May.....	1138	1,055.35
May 28.	J. A. Vye, animals for museum.....	1193	.15
May 21.	J. A. Vye, labor, repairs and supplies.....	1195	13.96
May 25.	Northrup-Braslan-Goodwin Co., tools.....	1210	10.15
May 24.	W. H. Gruenhagen, supplies, repairs and equipment.....	1212	2.85
May 6.	John A. Schlener & Co., 2 gross pens.....	1224	1.70
May 25.	Mary C. Thompson, salaries of employes.....	1225	1.75
May 25.	S. E. Olson & Co., supplies.....	1226	40.39
May 25.	Mrs. J. N. Blair, salaries of employes.....	1227	26.00
May 22.	Brooks Bros., repairs.....	1229	2.90
April 30.	Boutell Bros., supplies.....	1230	17.70
May 27.	J. A. Vye, treasurer, rent of rooms for students.....	1231	233.26
June 3.	Miss Dixie Smith, salaries of employes.....	1232	27.00
May 24.	Northwestern Fuel Co., fuel.....	1233	13.00
May 23.	Grace A. Burch, salaries of employes.....	1234	60.00
June 30.	Pay roll for June.....	1252	868.09
May 26.	Tribune Job Printing Co., printing.....	1261	3.40
June 24.	J. A. Vye, express.....	1293	.15
April 30.	P. Howard, repairs.....	1296	2.50

1895.		No. Voucher.	Amount.
May 28.	Standard Oil Co., one barrel gasoline.....	1298	8.75
June 3.	Tribune Job Printing Co., printing.....	1305	7.00
June 21.	Noyes Bros. & Cutler, supplies.....	1313	1.43
July 31.	Pay roll for July.....	1323	727.14
Total			<u>\$22,615.42</u>

Experiment Station (General Station Expenses).

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	Pay roll for month of July.....	1	\$230.69
July 31.	D. W. Sprague, petty bills for June and July.....	2	2.90
June 30.	J. S. Pillsbury, 5 chandeliers.....	15	25.00
June 26.	J. A. Vye, postage, express and miscellaneous.....	41	3.65
May 26.	Fairbanks, Morse & Co. repairs.....	46	.67
May 31.	Harrison & Smith, printing.....	55	8.25
June 9.	Leck & Leck, final payment on barn contract.....	60	100.00
May 24.	M. Roeller & Co., repairs on carriage and buggy.....	62	12.70
June 25.	Tribune Job Printing Co., 1,000 labor reports and orders....	63	8.50
June 4.	Koehler & Heinrichs, 1 reference book.....	64	5.00
Aug. 1.	Northwestern Telephone Exchange, service Aug. 1 to Sept. 1, 1894.....	103	7.00
July 1.	Northwestern Telephone Exchange, service July 1st to Aug. 1, 1894	107	7.00
July 26.	J. A. Vye, veterinary supplies.....	108	4.60
July 26.	J. A. Vye, postage, telegrams, express and stationery.....	108	44.09
July 1.	E. H. S. Dartt, expenses Owatonna station to July 1, 1894..	109	172.47
July 6.	P. Howard, repairs farm implements.....	110	10.50
June 26.	F. A. Fletcher & Co., one lap robe.....	111	.98
July 30.	Northwestern Fuel Co., 4,500 pounds H. V. coal.....	121	9.00
July 28.	S. L. Haecker, washing towels.....	122	4.87
July 23.	J. Gutzwiller, Jr., printing 17,000 Bulletins No. 33.....	126	104.27
July 16.	C. A. Smith Lumber Co., 192 feet lumber.....	127	4.94
July 5.	Minneapolis Engraving Co., 3 engravings.....	128	8.50
Aug. 31.	Pay roll for month of August.....	145	286.91
Sept. 1.	Northwestern Telephone Exchange, service from September 1st to October 1st.....	182	7.00
Aug. 31.	J. A. Vye, postage, express, telegrams and miscellaneous....	185	34.61
Aug. 1.	Nelson, Tenney & Co., lumber for repairs.....	193	11.28
July 16.	Tribune Job Printing Co., letter heads and envelopes.....	196	38.90
Aug. 1.	Victor A. Ludberg, putting in foundation for scales.....	199	5.60
July 5.	Minneapolis Engraving Co., 3 engravings.....	200	8.50
July 31.	Northwestern Fuel Co., 12,800 pounds H. V. coal.....	190	27.21
Aug. 1.	Thomas K. Gray, 5 gallons machine oil.....	207	3.00
Aug. 1.	Twin City Lime and Cement Co., sewer brick and lime.....	208	14.20
Sept. 30.	Pay roll for September.....	215	211.24
Sept. 27.	J. A. Vye, telegrams, express, stationery, etc.....	280	7.10
Sept. 22.	Held & Gruenhagen, hardware supplies.....	288	4.17
Aug. 3.	Fairbanks, Morse & Co., repairing scales.....	289	2.40
Sept. 27.	Peter Osbloom, labor on meat house.....	294	1.80
Sept. 27.	A. W. Field, repairs around schoolhouse.....	295	2.50
Aug. 30.	Northwestern Fuel Co., H. V. coal.....	304	57.79
Sept. 24.	Northwestern Lime Co., lime and cement.....	311	4.95
Sept. 24.	W. M. McFague, repairing implements.....	307	6.40
Sept. 28.	John Schlener & Co., stationery.....	238	1.00
Oct. 31.	Pay roll for October.....	325	256.62
Oct. 31.	D. W. Sprague, telephone service 2 months.....	326	14.00
Oct. 31.	J. A. Vye, freight and express, postage and miscellaneous...	400	21.35
Oct. 9.	Goodnow & Lawther, 36 3-5 tons pea coal.....	410	183.00
Oct. 23.	J. A. Vye, postage, stationery and miscellaneous.....	411	33.24
Sept. 29.	P. Howard, repairs.....	412	11.80
Oct. 17.	Nelson-Tenny Co., lumber for repairs.....	419	6.62
Oct. 23.	J. Gutzwiller, Jr., 15,000 copies Bulletin No. 34.....	420	148.90
Oct. 3.	Northwestern Fuel Co., 9,500 pounds stove coal.....	421	29.68
Oct. 24.	Held & Gruenhagen, repairs.....	425	5.91
Oct. 9.	John A. Schlener & Co., stationery.....	431	2.65
Oct. 24.	Leslie & McAfee, 1,000 blanks to sample.....	435	1.10
Oct. 26.	Peter Osbloom, labor, general repairs.....	436	16.42
Nov. 30.	Pay roll for November.....	472	305.38

1894.		No. Voucher.	Amount.
Dec. 1.	Northwestern Telephone Exchange, service for December...	489	7.00
Nov. 27.	J. A. Vye, express, repairs, miscellaneous.....	512	19.30
Nov. 22.	Brooks Bros., equipment.....	515	55.05
Nov. 27.	Peter Osbloom, labor, repairs.....	520	11.28
Oct. 28.	Gustav E. Stechert, books for library.....	521	5.50
Nov. 17.	Michigan Cedar Co., cedar posts and piling.....	523	22.50
Nov. 12.	Frederick Haynes, prints of cows.....	524	26.25
Oct. 8.	Leslie & McAfee, stationery.....	527	3.36
Sept. 26.	R. C. Clark, inspecting one boiler.....	536	6.00
Oct. 30.	Nelson-Tenney Co., lumber for repairs.....	537	23.00
Nov. 1.	Crane & Ordway Co., repairs.....	551	3.39
Nov. 21.	Fairbanks, Morse & Co., repairs.....	556	3.15
Nov. 13.	Wyckoff, Seamans & Benedict, equipment.....	558	67.75
Nov. 15.	Northwestern Fuel Co., coal and wood.....	561	40.31
Nov. 27.	Harry Anderson, labor on postoffice boxes.....	519	1.13
Dec. 31.	Pay roll for December.....	579	233.74
Jan. 1.	Northwestern Telephone Exchange, service for January.....	634	7.00
Dec. 27.	J. A. Vye, postage, express, supplies and repairs.....	652	31.80
Dec. 6.	Crane & Ordway Co., general fittings.....	656	24.23
Dec. 11.	Thomas K. Gray, supplies and repairs.....	663	8.30
Nov. 17.	W. F. Porter & Co., 16 42-pound Aetna grates.....	667	25.50
Dec. 13.	Tribune Job Printing Co., stationery.....	672	9.00
Nov. 23.	Marder, Luce & Co., tools and machinery.....	679	15.00
Dec. 10.	W. F. Cross, secretary, use of pasture one year.....	681	75.00
Nov. 30.	W. M. Hays, freight and transportation.....	688	61.22
Dec. 19.	Northwestern Fuel Co., wood and coal.....	689	212.00
Jan. 31.	Pay roll for January.....	714	283.23
Feb. 28.	D. W. Sprague, telephone service for July, 1893.....	715	7.00
Feb. 1.	Northwestern Telephone Exchange Co., service for February, 1896.....	763	7.00
Jan. 28.	J. A. Vye, postage, freight and express, labor and miscellaneous.....	773	75.75
Jan. 15.	John A. Schlener & Co., stationery.....	774	2.10
Jan. 1.	Held & Gruenhagen, supplies.....	776	5.67
Jan. 28.	J. A. Vye, 9 wood engravings and electro. of cattle.....	778	198.75
Jan. 28.	J. A. Vye, 30 hogs, 3,800 pounds.....	781	142.50
Jan. 17.	W. K. Morison & Co., wire nails and paint.....	791	2.53
Jan. 28.	Peter Osbloom, labor.....	799	18.91
Jan. 28.	Peter Englund, labor.....	800	1.35
Jan. 22.	J. Gutzwiller, Jr., printing Bulletin No. 35, etc.....	804	1,077.35
Feb. 28.	Pay roll for February.....	827	278.07
Mar. 1.	Northwestern Telephone Exchange, service for March, 1896.....	888	7.00
Feb. 28.	J. A. Vye, Freight and express, postage, labor, miscellaneous.....	897	67.54
Feb. 25.	Albert Brown, supplies.....	899	6.00
Feb. 20.	Tribune Job Printing Co., stationery and printing.....	901	29.75
Feb. 26.	J. Gutzwiller, Jr., 61,250 O. E. pamphlets.....	904	165.38
Feb. 25.	John A. Schlener & Co., stationery.....	905	11.25
Jan. 14.	M. Roeller & Co., repairs.....	906	6.15
Feb. 8.	P. Howard, repairs.....	908	12.55
Feb. 26.	Held & Gruenhagen, repairs and supplies.....	909	.95
Feb. 6.	Brooks Bros., lumber.....	911	10.08
Feb. 15.	Northwestern Fuel Co., fuel.....	912	10.01
Feb. 21.	Diamond Elevator Co., feed.....	920	14.82
Jan. 24.	W. K. Morison & Co., supplies.....	935	4.48
Mar. 31.	Pay roll for March.....	953	306.25
April 1.	Northwestern Telephone Exchange, service for April.....	1004	7.00
1895.			
Mar. 28.	J. A. Vye, freight and storage.....	1009	22.13
Feb. 27.	Brooks Bros, lumber for repairs.....	1010	3.33
Mar. 14.	J. H. Washburn, treasurer, membership dues A. A. A. C.....	1011	10.00
Mar. 20.	Harry E. Pence, 30,730 pounds hay.....	1012	74.91
Mar. 19.	Northwestern Fuel Co., fuel.....	1014	48.97
Mar. 18.	Minneapolis Paper Co., stationery.....	1021	2.75
Feb. 26.	Mark H. West, stock.....	1024	50.00
Mar. 23.	Pillsbury-Washburn, feed.....	1025	13.00
Mar. 26.	Peter Osbloom, labor.....	1031	10.80
April 30.	Pay roll for April.....	1044	320.24
April 8.	John A. Schlener & Co., stationery.....	1048	1.35
April 25.	W. H. Gruenhagen, supplies and repairs.....	1086	18.08
April 12.	Brooks Bros., repairs.....	1083	9.46
Mar. 24.	Tribune Job Printing Co., stationery and printing.....	1098	5.50
April 25.	C. L. Moffatt, repairs.....	1102	28.60
Mar. 27.	Lindsay Bros., repairs.....	1112	7.50
Mar. 15.	P. Howard, repairs.....	1113	5.25
Jan. 10.	R. R. Howell & Co., repairs.....	1114	4.75
June 1.	Northwestern Telephone Exchange, service for May.....	1117	7.00
April 12.	Pillsbury-Washburn, feed.....	1009	19.50
May 31.	Pay roll for May.....	1138	352.85
June 1.	Northwestern Telephone Exchange, service for June.....	1192	7.00
May 28.	J. A. Vye, books for library and express.....	1193	4.25

1895.		No. Voucher.	Amount.
April 29.	J. A. Vye, feed.....	1194	19.65
May 23.	O. C. Gregg, tools and machinery.....	1199	50.00
April 23.	Pioneer Press Co., 85,000 Bulletins.....	1209	740.00
May 21.	C. L. Moffatt, horseshoeing.....	1211	9.75
May 24.	W. H. Gruenhagen, supplies and repairs.....	1212	21.52
April 18.	W. K. Morison & Co., supplies.....	1216	4.06
May 14.	Pillsbury-Washburn Co., feed.....	1221	8.25
May 21.	Diamond Elevator Co., feed.....	1222	30.37
May 6.	John A. Schlener & Co., stationery.....	1224	5.45
May 22.	Brooks Bros., repairs.....	1229	10.46
May 24.	Northwestern Fuel Co., fuel.....	1233	4.06
May 21.	J. A. Vye, postage, express, repairs and miscellaneous.....	1237	115.20
June 30.	Pay roll for June.....	1252	333.30
June 30.	D. W. Sprague, petty bills.....	1253	1.54
July 1.	Northwestern Telephone Exchange, service for July.....	1266	7.00
June 24.	J. A. Vye, postage and miscellaneous.....	1293	35.04
June 25.	Torger A. Hoverstad, freight, postage and miscellaneous....	1295	27.98
June 25.	M. Roeller & Co., repairs.....	1297	22.50
May 28.	Standard Oil Co., 2 barrels gasoline.....	1298	17.49
June 24.	John Dryden, 96 bushels oats.....	1300	28.80
June 21.	Pillsbury-Washburn Co., shorts and bran.....	1302	18.50
June 5.	Morgan Envelope Co., stationery.....	1304	104.65
June 3.	Tribune Job Printing Co., printing.....	1305	6.50
June 20.	W. H. Gruenhagen, miscellaneous.....	1308	11.69
Sept. 12.	The Otto Gas Engine Works, one gasoline engine.....	1310	1,034.00
June 26.	W. M. Hays, freight and transportation and miscellaneous..	1311	19.00
June 26.	Wm. J. Smith, labor, freight, postage and miscellaneous....	1314	24.94
June 24.	Diamond Elevator Co., feed.....	1318	10.81
July 31.	Pay roll for July.....	1323	325.02
Total			\$10,480.86

Experiment Station—Division of Agriculture.

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	Pay roll for month of July.....	1	\$622.11
June 26.	J. A. Vye, express, freight and supplies.....	41	60.11
June 27.	Pillsbury-Washburn Co., 4,000 pounds of bran.....	42	20.00
June 28.	W. M. Hays, freight, transportation and repairs.....	44	19.00
June 9.	Northrup-Braslan-Goodwin Co., seeds and plants.....	45	9.42
May 24.	E. W. Hendrickson, 2,215 pounds hay.....	47	11.07
May 4.	W. K. Morison & Co., miscellaneous supplies.....	50	4.91
May 24.	T. A. Hoverstad, freight and miscellaneous supplies.....	58	8.09
June 28.	C. L. Moffatt, horseshoeing and repairs.....	59	16.00
June 25.	W. R. Gregg, labor and board of extra help.....	65	11.96
June 25.	E. L. Wakefield, labor and team.....	66	8.00
July 26.	J. A. Vye, freight, repairs and supplies.....	108	6.21
June 30.	F. A. Fletcher & Co., harness and repairs.....	111	11.20
July 28.	Held & Gruenhagen, nails, screws and iron bar.....	113	4.15
June 24.	W. R. Gregg, labor and extra help.....	124	38.35
June 30.	W. W. Rich, 1½ tons fertilizer.....	129	15.00
April 27.	Dowagiac Manufacturing Co., one grain drill.....	131	75.00
April 25.	Milburn-Stoddard Co., one wagon.....	132	50.00
July 23.	Pillsbury-Washburn Co., 700 pounds shorts.....	133	4.38
July 20.	Lindsay Bros., 150 pounds twine.....	134	10.76
Aug. 31.	Pay roll for August.....	145	495.36
Aug. 31.	J. A. Vye, freight and express, repairs and miscellaneous supplies	185	21.77
Aug. 23.	W. R. Gregg, salaries of employes and freight.....	187	62.95
Aug. 28.	W. M. Hays, freight and transportation.....	192	35.53
Aug. 17.	Pillsbury-Washburn Co., feed.....	194	17.50
Aug. 24.	Held & Gruenhagen, hardware supplies.....	195	13.60
Aug. 15.	P. Howard, repairs agricultural implements.....	198	11.80
Aug. 28.	C. L. Moffatt, horseshoeing and repairs.....	202	14.50
Aug. 27.	O. C. Gregg, one-half ton oil meal.....	205	12.50
Aug. 2.	Bemis Bros. Bag Co., sacks and bags.....	206	48.98
Aug. 1.	Thos. K. Gray, 2 gallons cylinder oil.....	207	1.20
Sept. 30.	Pay roll for September.....	215	539.14
Sept. 27.	J. A. Vye, tools and implements, freight and labor.....	280	17.25

1894.		No. Voucher.	Amount.
Sept. 26.	E. W. Backus, Lumber Co., lumber.....	282	50.92
Aug. 31.	W. K. Morison & Co., implements and supplies.....	285	5.54
Sept. 5.	R. R. Howell & Co., tools and machinery.....	290	24.63
Sept. 27.	Peter Osbloom, labor.....	294	1.57
Sept. 27.	A. W. Field, labor on meat house.....	295	24.44
Sept. 27.	C. A. Walsock, labor on meat house.....	297	.68
Sept. 18.	Pillsbury-Washburn Co., feed.....	301	6.00
Sept. 24.	Northwestern Lime Co., lime and cement.....	311	4.80
Sept. 24.	W. R. Gregg, board for extra laborers.....	284	18.84
Sept. 1.	C. L. Moffatt, horseshoeing and repairs.....	287	12.75
Oct. 31.	Pay roll for October.....	325	305.83
Oct. 31.	J. A. Vye, freight and express, postage and miscellaneous...	409	24.88
Oct. 23.	J. A. Vye, freight and supplies.....	411	89.99
Oct. 13.	W. R. Gregg, labor, threshing crew.....	416	33.30
Oct. 2.	F. A. Fletcher & Co., harness and repairs.....	417	8.55
Oct. 30.	W. M. Hays, transportation and board.....	423	20.32
Oct. 24.	Held & Gruenhagen, repairs and supplies.....	425	4.48
Sept. 29.	W. K. Morison & Co., supplies.....	427	1.60
Oct. 24.	John H. Wunderlick, labor, threshing crew.....	433	92.16
June 25.	O. C. Gregg, one mowing machine.....	434	50.00
Oct. 26.	Peter Osbloom, labor.....	436	1.13
Aug. 4.	Minneapolis Threshing Machine Co., one 28x42 Victor separator	439	266.67
Oct. 4.	S. Currie, plowing, seeding and threshing.....	442	76.00
Oct. 15.	Peter Wilsbacher, 45 bushels oats.....	453	15.75
Oct. 20.	C. L. Moffatt, horseshoeing and repairs.....	462	5.75
Nov. 30.	Pay roll for November.....	472	206.32
Nov. 27.	J. A. Vye, freight, labor and repairs.....	512	72.06
Nov. 23.	Pillsbury-Washburn Co., shorts and bran.....	514	33.90
Oct. 1.	Northrup-Braslan-Goodwin Co., seeds and plants.....	516	3.60
Nov. 27.	Peter Osbloom, labor.....	520	.96
Nov. 28.	T. A. Hoverstad, transportation and surveying.....	548	8.57
Nov. 16.	Minneapolis Iron Store Co., repairs.....	549	8.23
Nov. 1.	Crane & Ordway, repairs.....	551	10.42
Nov. 24.	Held & Gruenhagen, miscellaneous.....	553	7.58
Dec. 31.	Pay roll for December.....	579	169.54
Dec. 27.	J. A. Vye, express.....	652	1.15
Nov. 26.	C. L. Moffatt, horseshoeing.....	660	12.15
Oct. 26.	W. R. Gregg, plowing and seeding grain.....	700	439.05
1895.			
Jan. 31.	Pay roll for January.....	714	124.83
Jan. 28.	J. A. Vye, repairs and supplies.....	773	3.70
Jan. 1.	Held & Gruenhagen, supplies.....	776	2.70
Jan. 28.	Peter Osbloom, labor.....	799	4.27
Feb. 28.	Pay roll for February.....	827	117.83
Feb. 14.	E. W. Hendrickson, seeds and plants.....	892	35.00
Feb. 9.	J. B. Lippincott & Co., books for library.....	893	12.00
Feb. 28.	J. A. Vye, freight and express, repairs and supplies.....	897	27.30
Feb. 18.	Leonard Johnson, stock.....	903	25.00
Feb. 26.	Held & Gruenhagen, repairs and supplies.....	909	5.50
Feb. 8.	Pillsbury-Washburn Co., feed.....	921	6.63
Mar. 31.	Pay roll for March.....	953	134.58
Mar. 25.	Welber Damuth, labor.....	1032	6.92
April 30.	Pay roll for April.....	1044	363.24
April 24.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1085	92.29
April 24.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1085	41.24
April 25.	W. H. Gruenhagen, one dozen harness snaps.....	1086	.50
April 17.	Bemis Bros. Bag Co., 500 cotton sacks.....	1101	11.13
April 29.	W. R. Gregg, livery team and feed.....	1105	14.25
April 17.	Deere & Webber Co., one subsoil plow.....	1109	9.33
May 31.	Pay roll for May.....	1138	352.03
May 28.	J. A. Vye, express, freight and miscellaneous.....	1193	16.70
May 21.	J. A. Vye, express, seeds and plants and miscellaneous.....	1195	28.32
May 28.	J. A. Vye, labor, plowing.....	1196	69.72
May 31.	J. A. Vye, stock.....	1197	30.00
Feb. 14.	E. W. Hendrickson, 35 bushels seed corn.....	1206	35.00
May 25.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1210	12.56
May 24.	W. H. Gruenhagen, supplies and repairs.....	1212	2.05
May 8.	W. D. Brckett, one soil-sampling tube.....	1217	5.00
June 30.	Pay roll for June.....	1254	441.76
June 24.	J. A. Vye, freight, express and supplies.....	1293	7.57
April 30.	P. Howard, repairs.....	1296	.75
June 22.	Tolton Bros, machinery.....	1307	14.50
June 20.	W. H. Gruenhagen, supplies.....	1308	6.34
June 26.	D. D. Moore, labor, man and team.....	1309	50.25
June 26.	W. M. Hays, freight, transportation and supplies.....	1311	24.40
June 18.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1316	16.63
June 18.	Minneapolis Iron Store Co., equipment.....	1317	10.45
June 24.	Diamond Elevator Co., feed.....	1318	43.23
July 31.	Pay roll for July.....	1323	618.67
Total			\$7,242.08

Experiment Station—Division of Chemistry.

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	Pay roll for month of July.....	1	\$120.83
June 26.	J. A. Vye, express and cleaning buildings.....	41	6.00
June 21.	Noyes Bros. & Cutler, chemical supplies.....	52	12.73
May 13.	Emil Greiner, chemical apparatus.....	53	8.35
June 28.	Richards & Co., chemical apparatus.....	56	28.94
June 21.	Hutchins Bros., calcimining in laboratory.....	57	11.00
July 26.	J. A. Vye, labor and supplies.....	108	7.57
July 28.	Held & Gruenhagen, petty hardware supplies.....	113	7.83
July 5.	Standard Oil Co., gasoline.....	130	15.49
Aug. 31.	Pay roll for month of August.....	145	120.83
Aug. 31.	J. A. Vye, freight, labor and supplies.....	185	14.93
Aug. 21.	Noyes Bros. & Cutler, supplies.....	186	.75
Sept. 30.	Pay roll for September.....	215	125.60
Sept. 27.	J. A. Vye, freight and express.....	280	5.23
Sept. 13.	Standard Oil Co., 103 gallons gasoline.....	293	13.91
Sept. 15.	Richards & Co., chemical supplies.....	298	37.99
Oct. 31.	Pay roll for October.....	325	111.33
Oct. 31.	J. A. Vye, freight.....	409	.25
Oct. 23.	J. A. Vye, express and labor.....	411	4.80
Oct. 24.	Held & Gruenhagen, repairs.....	425	.80
Oct. 26.	Peter Osbloom, labor, repairs.....	436	4.95
Oct. 26.	Harry Anderson, labor, repairs.....	452	2.25
Nov. 30.	Pay roll for November.....	472	111.90
Nov. 27.	J. A. Vye, one book and express.....	215	.65
Dec. 31.	Pay roll for December.....	579	115.82
Oct. 30.	Standard Oil Co., gasoline.....	696	20.19
Jan. 31.	Pay roll for January.....	714	115.84
Jan. 28.	J. A. Vye, express.....	773	.45
Nov. 20.	Richards & Co., apparatus.....	802	11.30
Feb. 28.	Pay roll for February.....	827	111.33
Feb. 28.	J. A. Vye, express.....	897	.30
Feb. 14.	Northwestern Fuel Co., fuel.....	912	19.24
Feb. 25.	Noyes Bros. & Cutler, supplies.....	929	10.54
Feb. 13.	Standard Oil Co., 2 barrels gasoline.....	933	11.83
Mar. 31.	Pay roll for March.....	953	113.33
Mar. 28.	J. A. Vye, express and supplies.....	1009	1.50
Mar. 19.	Northwestern Fuel Co., fuel.....	1014	1.12
April 30.	Pay roll for April.....	1044	113.33
April 3.	Richards & Co., supplies.....	1095	37.80
May 31.	Pay roll for May.....	1138	115.16
May 21.	J. A. Vye, express and supplies.....	1195	4.53
June 30.	Pay roll for June.....	1252	133.68
June 24.	J. A. Vye, freight and express, labor, repairs and supplies..	1293	4.83
June 5.	Richards & Co., limited apparatus and supplies.....	1306	29.40
June 21.	Noyes Bros. & Cutler, supplies.....	1313	9.54
July 31.	Pay roll for July.....	1323	140.71
Total			\$1,896.77

Experiment Station—Division of Entomology.

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	Pay roll for month of July.....	1	\$83.33
June 26.	J. A. Vye, express.....	41	.25
1893.			
Aug. 14.	Noyes Bros. & Cutler, 5 dozen bottles.....	52	1.45
1894.			
July 26.	J. A. Vye, express.....	108	30.00
Aug. 31.	Pay roll for August.....	145	83.33
Aug. 31.	J. A. Vye, freight, express and telegrams.....	185	4.15
Sept. 30.	Pay roll for September.....	215	83.33
Aug. 13.	Fred Kaempfer, taxidermist's supplies.....	281	6.53
April 25.	R. S. Mackintosh, bee hives and cases.....	283	6.00

1894.		No. Voucher.	Amount.
Oct. 31.	Pay roll for October.....	325	84.33
Oct. 31.	J. A. Vye, postage, express and miscellaneous.....	409	4.75
Oct. 23.	J. A. Vye, telegram.....	411	.25
Nov. 30.	Pay roll for November.....	472	84.47
Dec. 31.	Pay roll for December.....	579	83.33
Dec. 27.	J. A. Vye, express.....	652	.35
Dec. 18.	Otto Lugger, books for library.....	653	45.50
Dec. 19.	Northwestern Fuel Co., wood and coal.....	689	28.28
Jan. 31.	Pay roll for January.....	714	83.33
Jan. 26.	Minneapolis Engraving Co., engraving.....	813	5.52
Feb. 28.	Pay roll for February.....	827	83.33
Mar. 31.	Pay roll for March.....	953	83.33
1895.			
April 30.	Pay roll for April.....	1044	94.88
May 31.	Pay roll for May.....	1138	83.94
May 28.	J. A. Vye, freight and miscellaneous.....	1,193	13.06
May 21.	J. A. Vye, express.....	1195	1.20
June 30.	Pay roll for June.....	1252	19.46
July 31.	Pay roll for July.....	1323	14.66
Total			<u>\$1,082.64</u>

Experiment Station--Division of Horticulture.

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	Pay roll for month of July.....	1	\$213.72
July 26.	J. A. Vye, seeds and plants.....	41	5.34
June 5.	Noyes Bros. & Cutler, supplies.....	52	1.35
June 28.	C. L. Moffatt, horseshoeing and repairs.....	59	2.10
June 28.	Held & Gruenhagen, 4 gallons boiled oil.....	113	1.30
June 29.	R. S. Mackintosh, flower pots and hose.....	119	5.50
Aug. 31.	Pay roll for month of August.....	145	144.33
Aug. 31.	J. A. Vye, freight, repairs and supplies.....	185	17.87
Aug. 21.	Noyes Bros. & Cutler, supplies.....	186	7.46
Aug. 24.	Held & Gruenhagen, 12½ pounds white lead.....	195	.90
Aug. 28.	C. L. Moffatt, horseshoeing and repairs.....	202	5.00
Aug. 28.	R. S. Mackintosh, labor.....	203	24.01
Aug. 28.	Samuel B. Green, salaries of employes and miscellaneous....	204	10.95
Sept. 30.	Pay roll for September.....	215	212.09
Sept. 28.	John S. Schlener & Co., one impression book.....	238	1.00
Aug. 31.	W. K. Morison & Co., one sprinkler.....	285	.60
Sept. 4.	H. P. Rugg & Co., tools and implements.....	286	4.92
Aug. 30.	Goodyear Rubber Co., 50 feet hose and couplings.....	303	8.32
Sept. 1.	C. L. Moffatt, horseshoeing.....	287	.75
Oct. 31.	Pay roll for October.....	325	190.80
Oct. 23.	J. A. Vye, express, seeds and plants.....	411	14.84
Oct. 2.	F. A. Fletcher & Co., harness and repairs.....	417	3.45
Oct. 26.	J. C. Vaughan, seeds and plants.....	418	10.25
Oct. 30.	S. B. Green, trip through St. Louis and Itasca counties.....	424	13.40
Oct. 24.	Held & Gruenhagen, supplies for repairs.....	425	5.40
Sept. 29.	W. K. Morison & Co., supplies.....	427	2.42
Oct. 23.	F. F. Pratt, salary employe.....	440	18.75
Oct. 27.	S. B. Green, transportation, labor and supplies.....	444	10.82
Oct. 25.	K. B. Norswing, seeds and plants.....	450	5.75
Oct. 20.	C. L. Moffatt, horseshoeing and repairs.....	462	4.75
Nov. 30.	Pay roll for November.....	472	233.20
Nov. 27.	J. A. Vye, freight, express and supplies.....	512	12.22
Nov. 12.	Noyes Bros. & Cutler, supplies.....	513	2.46
Nov. 22.	Brooks Bros., repairs.....	515	6.22
Oct. 1.	Northrup-Braslan-Goodwin Co., seeds and plants.....	516	7.62
Dec. 31.	Pay roll for December.....	579	183.14
Dec. 27.	J. A. Vye, express, labor and supplies.....	652	15.30
Dec. 23.	Marion Hayes, printing.....	678	31.25
Nov. 24.	F. A. Fletcher & Co., one whip.....	684	.35
Dec. 2.	Samuel B. Green, freight and express and supplies.....	685	11.13
Dec. 19.	Northwestern Fuel Co., wood and coal.....	689	28.29
Jan. 31.	Pay roll for January.....	714	149.51
Jan. 1.	Held & Gruenhagen, supplies.....	776	11.01
Dec. 18.	J. G. Swahn's Sons, equipment.....	795	11.55
Feb. 28.	Pay roll for February.....	827	148.11

1894.		No. Voucher.	Amount.
Feb. 28.	J. A. Vye, seeds and plants.....	897	8.77
Nov. 17.	O. H. Peck, supplies.....	902	7.06
Feb. 26.	Held & Gruenhagen, supplies.....	909	2.86
Jan. 26.	Northwestern Fuel Co., fuel.....	913	23.99
Mar. 31.	Pay roll for March.....	953	167.94
Mar. 28.	J. A. Vye, express, labor and supplies.....	1009	11.92
Mar. 11.	J. M. Thorburn, seeds and plants.....	1026	5.35
Mar. 25.	S. B. Green, freight and transportation and supplies.....	1029	8.78
April 30.	Pay roll for April.....	1044	279.26
April 24.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1085	28.26
April 25.	W. H. Gruenhagen, supplies.....	1086	1.85
April 17.	Bemis Bros. Bag Co., 100 yards burlaps.....	1101	4.20
April 20.	H. L. Collins & Co., stationery.....	1103	5.00
April 24.	Thomas Rohann, repairs.....	1104	6.25
April 29.	The Lovett Company, seeds and plants.....	1111	5.35
April 24.	J. C. Vaughan, seeds and plants.....	1115	12.14
May 31.	Pay roll for May.....	1138	290.84
May 28.	J. A. Vye, express, seeds, plants and miscellaneous.....	1193	.45
May 15.	Samuel B. Green, freight and transportation.....	1203	9.54
April 24.	George Le Vescounte, equipment.....	1207	5.21
April 27.	Ellwanger & Barry, seeds and plants.....	1208	34.05
May 25.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1210	.85
May 24.	W. H. Gruenhagen, repairs.....	1212	6.63
May 3.	Charles Hawkinson, seeds and plants.....	1214	18.85
May 22.	Goodyear Rubber Co., 50 feet hose.....	1215	6.10
April 18.	W. K. Morison & Co., supplies and tools.....	1216	3.35
May 7.	H. B. Ayres, seeds and plants.....	1218	6.00
May 13.	Frank P. Porter, seeds and plants.....	1219	7.50
May 9.	M. Crawford, seeds and plants.....	1220	5.79
1895.			
May 18.	The Crane-Ordway Co., tools and machinery.....	1223	13.50
May 6.	M. F. Webster, seeds and plants.....	1213	9.67
May 3.	Thayer Fruit Farm, seeds and plants.....	1228	8.95
May 22.	Brooks Bros., repairs.....	1229	1.75
April 30.	D. Hill, seeds and plants.....	1235	12.25
May 21.	J. A. Vye, express, seeds and plants and supplies.....	1237	62.53
June 30.	Pay roll for June.....	1252	344.90
June 24.	J. A. Vye, freight, seeds and plants, repairs and supplies....	1293	23.45
June 25.	M. Roeller & Co., repairs.....	1297	9.50
June 21.	Noyes Bros. & Cutler, supplies.....	1313	5.88
May 29.	W. K. Morison & Co., tools and supplies.....	1315	7.95
June 18.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1316	.25
June 24.	Diamond Elevator Co., feed.....	1318	10.81
July 31.	Pay roll for July.....	1323	269.05
Total			\$3,554.08

Experiment Station—Division of Animal Husbandry.

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	Pay roll for month of July.....	1	\$171.40
June 26.	J. A. Vye, flaxseed meal and sawdust.....	41	.85
June 28.	Pillsbury-Washburn Co., bran and shorts.....	42	25.50
June 19.	Northeast Feed mill, 1,005 pounds ground oats.....	61	15.83
July 26.	J. A. Vye, shavings.....	108	.75
July 23.	Pillsbury-Washburn Co., 1,000 pounds bran.....	133	5.25
Aug. 31.	Pay roll for August.....	145	191.10
Aug. 31.	J. A. Vye, sawdust.....	185	.50
Aug. 17.	Pillsbury-Washburn Co., bran and shorts.....	194	36.50
Aug. 11.	Twin City Lime and Cement Co., 2 barrels lime.....	208	1.40
Sept. 30.	Pay roll for September.....	215	189.55
Sept. 27.	J. A. Vye, transportation, express and supplies.....	280	4.13
Aug. 31.	W. K. Morison & Co., implements and supplies.....	285	17.56
Sept. 12.	Minnesota Linseed Oil Works, one ton oil meal.....	299	25.00
Sept. 8.	A. T. Arenberg, 6,000 pounds clover hay.....	300	30.15
Sept. 18.	Pillsbury-Washburn Co., feed, shorts and bran.....	301	73.00
Sept. 18.	Charles Neifeldt, 23,215 pounds hay.....	302	116.08
Oct. 31.	Pay roll for October.....	325	173.82
Oct. 31.	J. A. Vye, books.....	409	.55
Oct. 23.	J. A. Vye, freight on cattle.....	411	34.20
Oct. 16.	Thomas Shaw, transportation buying stock.....	415	10.14

1894.		No. Voucher.	Amount.
Oct. 2.	F. A. Fletcher & Co., harness and repairs.....	417	6.00
Oct. 24.	Held & Gruenhagen, repairs.....	425	2.94
Sept. 29.	W. K. Morison & Co., supplies.....	427	2.31
Oct. 16.	W. D. O. Harman, stock—sheep.....	428	98.60
Oct. 26.	Peter Osbloom, labor.....	436	9.22
Oct. 15.	Peter Wilsbacher, oats.....	453	4.20
Nov. 30.	Pay roll for November.....	472	204.40
Nov. 27.	J. A. Vye, freight, express and miscellaneous.....	512	16.57
Nov. 23.	Pillsbury-Washburn Co., bran and shorts.....	514	35.40
Nov. 27.	Peter Osbloom, labor.....	520	5.04
Oct. 20.	Tribune Job Printing Co., printing.....	535	2.00
Nov. 24.	J. H. Lannan, 12,075 pounds hay.....	538	60.38
Nov. 24.	Minnesota Linseed Oil Works, 3,000 pounds ground o'l cake.....	539	33.00
Nov. 26.	F. P. Wills, stock.....	541	89.54
Nov. 24.	Held & Gruenhagen, miscellaneous.....	553	2.15
Nov. 19.	Herman G. Berning, stock.....	564	100.00
Oct. 16.	Edward Paul, stock.....	565	136.50
Dec. 31.	Pay roll for December.....	579	194.41
Dec. 27.	J. A. Vye, freight and express.....	652	26.56
Dec. 25.	S. A. Youngberg, stock.....	662	100.00
Nov. 1.	W. K. Morison & Co., equipment.....	664	5.03
Dec. 5.	Pillsbury-Washburn Co., feed.....	674	38.14
Nov. 27.	James S. Henderson & Son, stock.....	690	28.00
Jan. 31.	Pay roll for January.....	714	226.46
Jan. 28.	J. A. Vye, sawdust and blank books.....	773	1.40
Jan. 17.	W. K. Morison & Co., one 3-bushel basket.....	971	1.75
Jan. 16.	Pillsbury-Washburn Co., 6,000 pounds bran.....	803	36.00
Jan. 11.	W. J. Boynton, stock.....	808	25.00
Feb. 28.	Pay roll for February.....	827	320.92
Feb. 28.	J. A. Vye, express, freight and suplies.....	897	13.25
Feb. 26.	Held & Gruenhagen, supplies.....	900	2.20
Feb. 20.	Tribune Job Printing Co., printing.....	901	2.00
Feb. 23.	Interstate Grain Co., 5,000 pounds each wheat and corn.....	919	90.38
Feb. 21.	Diamond Elevator Co., feed.....	920	13.29
Feb. 8.	Pillsbury-Washburn Co, feed.....	921	35.77
Mar. 31.	Pay roll for March.....	953	210.79
Mar. 28.	J. A. Vye, freight.....	1009	4.86
Mar. 23.	Pillsbury-Washburn Co., feed.....	1025	40.50
Mar. 30.	H. W. Stone, one Poland China sow.....	1033	25.00
April 30.	Pay roll for April.....	1044	223.31
April 25.	H. W. Gruenhagen, supplies.....	1086	3.74
April 12.	Brooks Bros., repairs and equipment.....	1093	53.59
April 10.	Minnesota Linseed Oil Works, one ton ground oil cake.....	1106	20.00
May 31.	Pay roll for May.....	1138	195.73
May 21.	J. A. Vye, freight and miscellaneous supplies.....	1195	11.73
Mar. 14.	J. A. Vye, 13,835 pounds straw.....	1198	43.58
May 23.	O. C. Gregg, stock.....	1199	75.00
May 28.	Wilcox & Liggett, stock.....	1202	65.00
May 14.	Pillsbury-Washburn Co., feed.....	1221	8.25
May 21.	Diamond Elevator Co., feed.....	1222	15.32
June 30.	Pay roll for June.....	1252	217.93
June 24.	J. A. Vye, freight, supplies and miscellaneous.....	1293	20.48
June 21.	Minnesota Linseed Oil Works, 1,000 pounds ground oil cake.....	1301	10.50
1895.			
June 20.	W. H. Gruenhagen, repairs and supplies.....	1308	1.40
June 24.	Diamond Elevator Co., feed.....	1313	10.60
July 31.	Pay roll for July.....	1323	224.04
Total			<u>\$4,474.42</u>

Experiment Station—Division of Dairy Husbandry (School).

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
June 26.	J. A. Vye, dairy supplies.....	41	\$20.36
July 31.	Pay roll for July.....	1	115.55
Aug. 31.	Pay roll for August.....	145	132.11
Aug. 15.	P. Howard, repairs.....	198	1.20
Sept. 30.	Pay roll for September.....	215	175.81
Sept. 27.	J. A. Vye, supplies.....	280	45.80
May 28.	H. P. Rugg & Co., one gate valve.....	286	3.50

1894.		No. Voucher.	Amount.
Aug. 3.	Fairbanks, Morse & Co., repairs on scale.....	289	3.25
Sept. 27.	A. W. Field, labor and repairs.....	295	1.11
Sept. 8.	A. T. Arneberg, 6,000 pounds clover hay.....	300	29.85
Sept. 18.	Charles Niedfeldt, 1,730 pounds hay.....	302	8.65
Aug. 31.	Midway Supply Co., 12,000 pounds ice.....	305	18.00
Sept. 6.	W. H. Brumhall, 5 5-8 tons timothy hay.....	308	56.25
Sept. 24.	Northwestern Lime Co., lime and cement.....	311	6.00
Oct. 31.	Pay roll for October.....	325	98.42
Oct. 31.	E. F. Erwin, stock (5 cows).....	408	250.00
Oct. 31.	J. A. Vye, postage, express and freight.....	409	4.50
Oct. 23.	J. A. Vye, telegram and express.....	411	2.05
Oct. 6.	F. A. Fletcher & Co., harness and repairs.....	417	6.75
Oct. 1.	Midway Supply Co., 14,000 pounds ice.....	422	21.00
Oct. 24.	Held & Gruenhagen, repairs.....	425	1.59
Oct. 17.	Minneapolis Brewing Co., 51.36 bushels barley.....	429	28.46
Oct. 26.	Peter Osbloom, labor.....	436	5.40
Oct. 15.	E. J. Graham, transportation and hotel fare.....	438	24.99
Oct. 26.	Harry Anderson, repairs.....	452	2.25
Oct. 15.	Peter Wilsbacher, oats.....	453	19.60
Oct. 15.	Creamery Package Manufacturing Co., 130 yards cloth.....	457	5.89
Oct. 15.	Frank Wilsbacher, 15.70 bushels of wheat.....	458	15.70
Oct. 5.	Pillsbury-Washburn Co., 3,000 pounds bran.....	459	16.50
Nov. 30.	November pay roll.....	472	178.96
Nov. 27.	J. A. Vye, freight, express and miscellaneous.....	512	17.37
Nov. 1.	Midway Supply Co., 4,000 pounds ice.....	517	6.00
Nov. 26.	C. Peterson, 360 gallons milk.....	518	54.00
Nov. 27.	Peter Osbloom, labor.....	520	2.88
Nov. 24.	Arthur W. Field, labor.....	522	21.25
Nov. 21.	Robinson & Cary Co., general fittings.....	550	34.96
Nov. 24.	Held & Gruenhagen, miscellaneous.....	553	16.05
Nov. 15.	Northwestern Fuel Co., pea coal.....	561	40.32
Dec. 31.	Pay roll for December.....	579	215.96
Dec. 27.	J. A. Vye, freight and supplies.....	652	26.44
Dec. 20.	James Hubbard, feed.....	655	43.82
Dec. 21.	Minneapolis Brewing Co., 59.25 bushels barley.....	657	32.76
Oct. 21.	R. S. Kingman, one bull.....	658	50.00
Dec. 26.	C. Peterson, 640 gallons milk.....	659	96.00
Dec. 22.	F. A. Squires & Son, stock.....	668	100.00
April 1.	Mrs. T. L. Haecker, washing towels.....	669	7.54
Dec. 20.	George Fuller, supplies.....	673	20.56
Dec. 5.	Pillsbury-Washburn Co., feed.....	674	19.50
Dec. 13.	Nelson-Tenney Co., lumber.....	675	35.14
Nov. 28.	Robinson & Cary Co., general fittings.....	676	27.00
Dec. 26.	Minnesota Linseed Oil Works, oil cake.....	680	22.00
Nov. 24.	F. A. Fletcher & Co., 6 Russia calf halters.....	684	7.50
Jan. 31.	Pay roll for January.....	714	301.02
Jan. 28.	J. A. Vye, freight, express and supplies.....	773	45.17
Jan. 1.	Held & Gruenhagen, glass and linseed oil.....	776	5.90
Jan. 11.	Harrison & Smith, printing.....	777	21.50
Jan. 23.	Crescent Creamery Co., 8,266 gallons milk.....	780	1,157.24
Jan. 31.	C. Peterson, 620 gallons milk.....	788	93.00
Jan. 17.	W. F. Porter & Co., repairs on boiler.....	789	3.00
Jan. 16.	Creamery Package Manufacturing Co., apparatus and supplies.....	790	49.20
Jan. 15.	D. D. Moore, 10,270 pounds timothy hay.....	794	61.00
Jan. 28.	Peter Osbloom, labor.....	799	8.10
Jan. 2.	Noyes Bros. & Cutler, supplies.....	801	5.39
Jan. 16.	Pillsbury-Washburn Co., 2,000 pounds bran.....	803	12.00
Jan. 28.	Frank Crane, one red polled cow.....	805	60.00
Jan. 26.	F. B. Fargo & Co., supplies.....	806	21.64
Jan. 30.	A. E. Comstock, salary assistant.....	409	25.00
Jan. 30.	A. J. Glover, salary assistant.....	810	25.00
Jan. 30.	George Gulmon, salary assistant buttermaker.....	811	100.00
Jan. 30.	N. H. Fulton, salary assistant buttermaker.....	812	100.00
Jan. 30.	J. H. Hecker, instructions in cheese making.....	815	200.00
Jan. 30.	E. L. Aderhold, instructions in cheese making.....	816	200.00
Feb. 28.	Pay roll for February.....	827	391.03
Feb. 28.	J. A. Vye, freight and express, labor and supplies.....	897	76.89
1895.			
Feb. 28.	J. A. Vye, 14,410 pounds hay.....	898	72.05
Jan. 9.	Midway Supply Co., 9,000 pounds ice.....	900	10.50
Feb. 20.	Tribune Job Printing Co., stationery and printing.....	901	6.75
Feb. 26.	Held & Gruenhagen, supplies.....	909	3.73
Feb. 28.	W. P. Simpson, salary in cheese making.....	910	25.00
Feb. 6.	Brooks Bros., lumber.....	911	16.20
Feb. 15.	Northwestern Fuel Co., fuel.....	912	86.44
Jan. 26.	Northwestern Fuel Co., fuel.....	913	183.44
Jan. 9.	Tribune Job Printing Co., stationery and printing.....	930	37.50
Feb. 25.	Noyes Bros. & Cutler, supplies.....	929	10.48

1895.		No. Voucher.	Amount.
Feb. 26.	Adam Lindig, 9,400 pounds hay.....	914	56.40
Feb. 21.	Diamond Elevator Co., feed.....	920	13.29
Feb. 8.	Pillsbury-Washburn Co., feed.....	921	19.90
Feb. 25.	A. E. Comstock, salary employe in dairy school.....	923	25.00
Feb. 25.	W. M. Newman, salary employe in dairy school.....	924	25.00
Feb. 20.	Cornish, Curtis & Greene Co., supplies.....	925	21.08
Jan. 25.	Held & Gruenhagen, supplies.....	931	11.05
Feb. 26.	C. Peterson, 560 gallons milk.....	926	84.00
Jan. 22.	Crane & Ordway Co., supplies.....	932	5.35
Feb. 18.	Robinson & Cary Co., machinery.....	934	49.77
Jan. 24.	W. K. Morison & Co., supplies.....	535	1.21
Feb. 23.	Crescent Creamery Co., 11,090 gallons milk.....	936	1,512.38
Mar. 31.	Pay roll for March.....	953	258.60
Mar. 28.	J. A. Vye, freight, express and supplies.....	1009	11.55
Feb. 28.	Brooks Bros., lumber for repairs.....	1010	3.33
Mar. 19.	Northwestern Fuel Co., fuel.....	1014	13.00
Mar. 27.	C. Peterson, 460 gallons whole milk.....	1015	69.00
Mar. 20.	Cornish, Curtis & Greene Co., supplies.....	1016	9.25
Feb. 25.	F. B. Fargo & Co., supplies.....	1017	5.50
Feb. 28.	Crescent Creamery Co., 1,600 gallons milk.....	1018	216.00
Mar. 20.	Adam Lindig, 5,450 pounds straw.....	1019	13.63
Mar. 23.	Pillsbury-Washburn Co., 3,000 pounds bran.....	1025	18.00
Mar. 7.	Diamond Elevator Co., 51½ bushels shelled corn.....	1027	24.72
Feb. 6.	Fuller's Kleansall Soap Co., one keg Kleansall soap.....	1030	9.40
April 30.	Pay roll for April.....	1044	153.96
April 25.	W. H. Gruenhagen, supplies.....	1086	8.41
April 10.	Northwestern Fuel Co., fuel.....	1087	120.69
Feb. 11.	H. O. Roberts, equipment.....	1094	25.00
Feb. 4.	National Hone and Soap Co., 130 pounds Noxall soap.....	1097	10.40
April 20.	Creamery Package Manufacturing Co., supplies.....	1100	9.18
April 29.	T. L. Haecker, washing towels and strainers.....	1107	7.54
Mar. 4.	Archambo & Morse, repairs.....	1110	5.00
Jan. 10.	R. R. Howell & Co., 100 feet leather lacing.....	1114	1.00
May 31.	Pay roll for May.....	1138	187.44
May 28.	J. A. Vye, 2 baby bowl rings.....	1193	.50
May 21.	J. A. Vye, freight, labor, repairs and miscellaneous.....	1195	24.56
April 12.	M. F. Williams, feed.....	1205	8.38
May 24.	W. H. Gruenhagen, repairs.....	1212	2.45
May 14.	Pillsbury-Washburn Co., feed.....	1221	18.00
May 22.	Brooks Bros., repairs.....	1229	3.79
May 24.	Northwestern Fuel Co., fuel.....	1233	12.19
June 30.	Pay roll for June.....	1252	167.76
June 24.	J. A. Vye, express and supplies.....	1293	2.00
June 25.	M. Roeller & Co., repairs.....	1297	4.00
June 26.	C. Peterson, 270 gallons milk.....	1299	36.45
June 11.	August Giesman, 327 gallons milk.....	1303	45.78
June 26.	Tribune Job Printing Co., 1,500 receipt blanks.....	1305	2.50
June 20.	W. H. Gruenhagen, supplies.....	1308	2.10
June 24.	Diamond Elevator Co., feed.....	1318	5.40
July 31.	Pay roll for July.....	1323	149.22
Total			<u>\$9,100.83</u>

Experiment Station—Division of Dairy Husbandry (Station).

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	Pay roll for month of July.....	1	\$58.34
June 29.	F. A. Berry, 431 pounds butter fat.....	43	77.58
June 25.	Fairbanks, Morse & Co., repairs.....	46	7.08
May 24.	Creamery Package Manufacturing Co., cheese boxes and churns	48	17.56
May 28.	Creamery Package Manufacturing Co., 2 No. 1 churns.....	49	6.80
May 31.	W. K. Morison & Co., shafting, hangers, bolts, etc.....	50	8.71
May 31.	Emil Greiner, 6 dozen test bottles.....	53	10.75
July 26.	J. A. Vye, freight and express.....	108	2.89
July 28.	Held & Gruenhagen, tools and petty supplies.....	113	13.85
July 28.	T. L. Haecker, miscellaneous supplies.....	114	8.93
May 16.	George Fuller, one keg Kleansall soap.....	115	9.36
June 14.	J. S. Todd & Co., 2 rolls paper and 2 holders.....	116	6.64
July 11.	Creamery Package Manufacturing Co., 6 8-gallon cans and supplies	117	14.70

1894.		No. Voucher.	Amount.
June 8.	Cornish, Curtis & Greene Co., butter workers, churns and sieves	118	64.40
July 30.	Northwestern Fuel Co., 3,000 pounds nut coal.....	121	11.25
July 28.	T. L. Haecker, washing towels and cheese cloths.....	122	4.87
June 28.	Crescent Creamery Co., 290 gallons milk.....	123	34.80
July 24.	Lyman-Eliel Drug Co., supplies—dairy.....	125	8.60
Aug. 31.	Pay roll for August.....	145	70.00
Aug. 31.	J. A. Vye, freight and express, labor and supplies.....	185	15.03
Aug. 17.	Pillsbury-Washburn Co., 2,000 pounds bran.....	194	11.00
Aug. 24.	Held & Gruenhagen, supplies.....	195	12.50
Aug. 27.	O. C. Gregg, one-half ton oil meal.....	205	12.50
July 31.	Northwestern Fuel Co., fuel—coal and wood.....	190	20.50
Aug. 1.	Thomas K. Gray, paint material.....	207	1.95
Sept. 30.	Pay roll for September.....	215	70.00
Sept. 11.	Tribune Job Printing Co., 200 ½-sheet posters.....	292	8.50
Oct. 31.	Pay roll for October.....	325	96.26
Aug. 14.	Minneapolis Engraving Co., cuts of cattle, cheese, etc.....	443	21.90
Nov. 30.	Pay roll for November.....	472	70.00
Nov. 27.	Peter Osbloom, labor.....	520	19.20
Dec. 31.	Pay roll for December.....	579	70.00
Dec. 21.	T. L. Haecker, freight and transportation.....	654	10.51
Jan. 31.	Pay roll for January.....	714	70.00
Feb. 28.	Pay roll for February.....	827	70.00
Feb. 28.	J. A. Vye, express and supplies.....	897	1.05
Mar. 31.	Pay roll for March.....	953	70.00
1895.			
April 30.	Pay roll for April.....	1044	70.00
May 31.	Pay roll for May.....	1138	70.00
May 14.	J. A. Vye, miscellaneous.....	1195	2.10
June 30.	Pay roll for June.....	1252	70.00
July 31.	Pay roll for July.....	1323	70.00
Total			\$1,370.11
Total dairy school.....			9,100.83
Total dairy station.....			1,370.11
Total expenses of dairy.....			<u>\$10,470.94</u>

Experiment Station—Division of Veterinary (Station).

CURRENT EXPENSE.

1894.		No. Voucher.	Amount.
July 31.	Pay roll for month of July.....	1	77.90
June 26.	J. A. Vye, express	41	.45
July 23.	Edward Lindig,* 1960 pounds hay.....	120	9.80
Aug. 31.	Pay roll for August.....	145	89.95
Aug. 31.	Noyes Bros. & Cutler, medical supplies.....	186	38.61
Aug. 18.	Adam Lindig, 1630 pounds hay.....	191	8.15
Sept. 30.	Pay roll for September.....	215	83.00
Sept. 27.	J. A. Vye, fixtures.....	280	7.17
Sept. 26.	E. W. Backus Lumber Co., lumber.....	282	3.97
Sept. 27.	Peter Osbloom, labor and repairs.....	294	2.25
Sept. 27.	Harry Anderson, labor.....	296	1.58
Sept. 22.	Adam Lindig, 2,830 pounds hay.....	308	12.73
Aug. 24.	Noyes Bros. & Cutler, instrument and supplies.....	309	14.00
Oct. 31.	Pay roll for October.....	325	54.52
Oct. 23.	J. A. Vye, express, repairs and supplies.....	411	6.30
Sept. 1.	A. L. Morey, supplies.....	413	20.80
Oct. 23.	M. H. Reynolds, supplies.....	414	10.52
Oct. 15.	Noyes Bros. & Cutler, apparatus and instruments.....	426	17.40
Oct. 26.	Peter Osbloom, labor.....	436	4.05
Oct. 20.	C. L. Moffatt, 8 cow ties.....	462	1.50
Nov. 30.	Pay roll for November.....	472	112.22
Nov. 27.	J. A. Vye, express, telegram, and sawdust.....	512	2.45
Nov. 12.	Noyes Bros. & Cutler, supplies.....	513	18.60
Nov. 22.	Brooks Bros., lumber.....	515	2.15
Nov. 27.	Peter Osbloom, labor.....	520	1.20
Nov. 26.	M. H. Reynolds, miscellaneous.....	526	19.43

1894.		No. Voucher.	Amount.
Nov. 24.	Held & Gruenhagen, miscellaneous.....	553	3.65
Nov. 26.	Adam Lindig, 3,670 pounds hay.....	555	16.51
Dec. 31.	Pay roll for December.....	579	98.49
Dec. 27.	J. A. Vye, express and supplies.....	652	2.93
Dec. 20.	James Hubbard, feed.....	655	15.65
Dec. 10.	John A. Schlener & Co., furniture and supplies.....	661	10.95
Dec. 20.	M. H. Reynolds, supplies.....	665	6.85
Dec. 14.	Adam Lindig, feed.....	666	16.20
Nov. 26.	Noyes Bros. & Cutler, one-half dozen thermometers.....	671	7.50
Jan. 31.	Pay roll for January.....	714	85.61
Jan. 28.	J. A. Vye, sawdust.....	773	1.50
1895.			
Jan. 1.	Held & Gruenhagen, horse clippers, halters, etc.....	776	5.70
Jan. 28.	Peter Osbloom, labor.....	799	9.90
Jan. 28.	Peter Englund, labor.....	800	2.70
Jan. 2.	Noyes Bros. & Cutler, supplies.....	801	2.00
Feb. 28.	Pay roll for February.....	827	88.70
Feb. 28.	J. A. Vye, freight, express and supplies.....	897	13.05
Feb. 26.	Held & Gruenhagen, supplies.....	909	2.24
Feb. 15.	Northwestern Fuel Co., 3,080 pounds stove coal.....	912	10.01
Jan. 26.	Northwestern Fuel Co., fuel.....	913	15.99
Feb. 25.	Noyes Bros. & Cutler, supplies.....	929	24.81
Jan. 25.	Held & Gruenhagen, repairs and equipments.....	931	9.05
Mar. 31.	Pay roll for March.....	953	80.40
Mar. 28.	J. A. Vye, freight.....	1009	4.51
Mar. 20.	Adam Lindig, 1,840 pounds hay.....	1019	8.28
Mar. 25.	M. H. Reynolds, express and supplies.....	1029	3.84
April 30.	Pay roll for April.....	1044	91.75
April 25.	W. H. Gruenhagen, repairs and supplies.....	1086	10.69
Mar. 27.	Noyes Bros. & Cutler, apparatus and supplies.....	1096	34.71
April 12.	Pillsbury-Washburn Co., bran.....	1099	6.87
May 31.	Pay roll for May.....	1138	98.79
April 29.	J. A. Vye, hay.....	1194	28.00
May 31.	J. A. Vye, express, repairs and miscellaneous.....	1195	16.90
April 19.	Adam Lindig, feed.....	1200	8.32
May 2.	Noyes Bros. & Cutler, supplies.....	1201	3.21
May 28.	M. H. Reynolds, supplies.....	1204	6.01
May 24.	W. H. Gruenhagen, supplies and repairs.....	1212	1.50
May 21.	Diamond Elevator Co., feed.....	1222	16.75
May 22.	Brooks Bros., mouldings.....	1229	3.64
June 30.	Pay roll for June.....	1252	104.58
June 24.	J. A. Vye, transportation.....	1293	1.98
April 30.	P. Howard, repairs buggy.....	1296	1.90
June 21.	Noyes Bros. & Cutler, chemical supplies.....	1313	23.04
July 31.	Pay roll for July.....	1323	90.56
Total			<u>\$1,716.86</u>

Experiment Station—Division of Veterinary (School).**CURRENT EXPENSE.**

1895.		No. Voucher.	Amount.
Jan. 31.	Pay roll for January.....	714	\$7.26
Feb. 28.	Pay roll for February.....	827	9.36
Feb. 28.	J. A. Vye, express, labor and supplies.....	897	1.15
Mar. 31.	Pay roll for March.....	953	8.00
April 30.	Pay roll for April.....	1044	11.89
Mar. 27.	Noyes Bros. & Cutler, supplies.....	1096	10.14
April 12.	Pillsbury-Washburn Co., bran.....	1099	6.88
May 2.	Noyes Bros. & Cutler, supplies.....	1201	3.20
Total			<u>\$57.88</u>
Division of veterinary (station).....			1,716.86
Division of veterinary (school).....			57.88
Total veterinary.....			<u>\$1,774.74</u>

SUMMARY OF DISBURSEMENTS OF CURRENT EXPENSE FUNDS.

FOR THE FISCAL YEAR ENDING JULY 31, 1895.

General University			\$46,715.64
College of Science, Literature and the Arts.....			72,574.17
Military Science.....			1,300.97
College of Engineering, Metallurgy and Mechanic Arts.....			19,815.91
The Geological and Natural History Survey.....			10,912.37
College of Law.....			10,395.65
College of Medicine and Surgery.....			17,888.69
College of Homeopathic Medicine and Surgery.....			1,938.26
College of Dentistry.....			6,417.17
College of Pharmacy.....			2,568.25
College of Agriculture.....	School.	Station.	
The Experiment Station—	\$15,455.42	.....	15,455.42
General Station.....	400.00	\$10,480.86	10,880.86
Division of Agriculture.....	1,000.00	7,242.08	8,242.08
Division of Chemistry	1,000.00	1,896.77	2,896.77
Division of Entomology	1,200.00	1,082.64	2,282.64
Division of Horticulture.....	1,000.00	3,554.08	4,554.08
Division of Animal Husbandry.....	700.00	4,474.42	5,174.42
Division of Dairy Husbandry.....	10,060.83	1,370.11	11,430.94
Division of Veterinary.....	957.88	1,716.86	2,674.74
Total school and station.....	\$31,774.71	\$31,817.82	
Total current expense			\$254,119.03

Note.—The total above shows the amount actually paid out during the year, but not the expenses, as one expense list was paid after August 1st.

SPECIAL APPROPRIATIONS.

BUILDING AND EQUIPMENT FUND.

Library and Assembly Hall.

Balance in treasury Aug. 1, 1894..... \$90,669.90

DISBURSEMENTS.

1894.		No. Voucher.	Amount.
July 27.	Pike & Cook, labor and material to construct Library and Assembly hall	142	\$13,699.00
July 25.	J. G. Beattie & Co., altering sewer at site of Library and Assembly hall.....	144	467.50
July 25.	J. G. Beattie & Co., plumbing in Library and Assembly hall.	144	225.00
July 30.	Kelly & Lamb, heating and ventilating in Library and Assembly hall	143	72.00
Aug. 30.	Pike & Cook, labor and material to construct Library and Assembly hall.....	210	9,216.00
Aug. 30.	W. I. Gray & Co., electric wiring in Library and Assembly hall	211	135.00
Aug. 30.	J. G. Beattie & Co., altering sewer at site of Library and Assembly hall	212	299.50
Aug. 30.	J. G. Beattie & Co., plumbing in Library and Assembly hall.	213	306.00
Aug. 31.	D. W. Sprague, for hauling and filling around Library and Assembly hall	214	116.25
Sept. 27.	Pike & Cook, labor and material to construct Library and Assembly hall	313	8,302.00
Sept. 27.	Kelly & Lamb, heating and ventilating in Library and Assembly hall	314	180.00
Sept. 30.	Chas. R. Aldrich, superintendent construction of Library and Assembly hall	315	500.00
Sept. 27.	J. G. Beattie & Co., plumbing in Library and Assembly hall	316	457.56
Sept. 27.	W. I. Gray & Co., electric wiring in Library and Assembly hall	317	463.50
Oct. 29.	Pike & Cook, labor and material to construct Library and Assembly hall	466	11,747.00
Oct. 25.	Kelly & Lamb, heating and ventilating in Library and Assembly hall.....	467	1,485.00
Oct. 29.	W. I. Gray & Co., electric wiring in Library and Assembly hall	468	495.00
Nov. 29.	Pike & Cook, labor and material to construct Library and Assembly hall	569	8,370.00
Nov. 29.	J. G. Beattie & Co., plumbing in Library and Assembly hall	570	517.50
Dec. 1.	Jakob Fjelde, modeling 10 figures for the Atrium hall in Library and Assembly hall.....	571	250.00
Jan. 1.	Jakob Fjelde, modeling 4 figures for the Atrium hall in the Library and Assembly hall.....	705	100.00
Dec. 21.	J. G. Beattie & Co., plumbing in Library and Assembly hall	706	1,586.12
Jan. 1.	Pike & Cook, labor and material to construct Library and Assembly hall	707	11,138.60
Jan. 29.	Pike & Cook, alterations in plans of Library and Assembly hall	820	778.50
Feb. 14.	Pike & Cook, labor and material to construct Library and Assembly hall	821	13,770.10
Feb. 1.	Brown & Haywood Co., 31 lights leaded glass for Library and Assembly hall.....	822	90.00
Jan. 31.	W. I. Gray & Co., electric wiring in Library and Assembly hall	823	155.40

1894.		No. Voucher.	Amount.
Jan. 26.	Jakob Fjelde, modeling 4 high relief spandrel figures for the Library building	824	100.00
Jan. 28.	Thomas Kane & Co., 787 No. 11 new wood top, antique birch finish, natural, perfectly plain arms, coat racks.....	825	1,574.00
Feb. 22.	James Bladon & Co., gas and electric fixtures in Library and Assembly hall	947	1,000.00
Feb. 26.	W. I. Gray & Co., feeder wires for Library building.....	948	91.50
Feb. 21.	Minneapolis General Electric Co., electric lamps for Library	949	91.19
Feb. 19.	Electric Engineering Co., feeder wires for Library building.	950	79.95
Feb. 27.	Beard Art Co., frames for Washington and Lincoln, for Library	951	30.00
1895.			
Jan. 31.	Johnson Electric Service Co., installation of heat-regulating apparatus in Library and Assembly hall.....	1036	195.00
Mar. 11.	New England Furniture Co., matting for Library building..	1037	53.57
Mar. 6.	Glessner & Washburn, chairs and shades for Library building	1038	602.50
Mar. 25.	Kelly & Lamb, heating and ventilating in Library building..	1039	694.10
Mar. 25.	Charles R. Aldrich, superintending construction of Library and Assembly hall.....	1040	550.00
Mar. 13.	Minneapolis Office and School Furniture Co., office fixtures for administration room, Library building.....	1041	410.00
Mar. 1.	F. R. Warner, springs for outside doors, Library building...	1042	33.00
Total disbursements			\$90,427.34
Balance in treasury Aug. 1, 1895.....			242.56
			<u>\$90,669.90</u>

EQUIPMENT OF COLLEGE OF PHARMACY.

1894.	No. Voucher.	Amount.
Balance in treasury Aug. 1, 1894.....		\$50.95

DISBURSEMENTS.

1894.	No. Voucher.	Amount.
May 7.	Noyes Bros. & Cutler, equipment.....	144½ \$7.31
Sept. 17.	American Druggist Publishing Co., equipment.....	322 8.00
Sept. 29.	F. J. Wulling, equipment.....	323 8.29
Oct. 31.	F. J. Wulling, equipment.....	470 27.35
Total		<u>\$50.95</u>

ORE-TESTING WORKS.

Balance in treasury Aug. 1, 1894.....	\$8,101.15
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DISBURSEMENTS.

1894.	No. Voucher.	Amount.
Sept. 27.	H. Downs & Sons, labor and material to construct ore-testing works.....	318 \$2,742.75
Aug. 17.	Harry W. Jones, preparing plans and specifications for ore-testing works	319 57.30
Sept. 17.	Richards & Co., furnaces and tanks for ore-testing works...	320 111.20
July 15.	American Scrap Iron Co., tools and machinery for equipment of ore-testing works.....	321 350.00
Nov. 1.	H. Downs & Sons, labor and material to construct ore-testing works	469 1,270.75
Nov. 30.	B. F. Abbott, material for covering roof of ore-testing works	572 85.00
Dec. 8.	D. W. Sprague, setting up machinery in ore-testing works..	573 267.25
Dec. 15.	D. W. Sprague, setting up machinery in ore-testing works..	574 175.00
Dec. 22.	D. W. Sprague, setting up machinery in ore-testing works..	575 190.75
Dec. 15.	A. G. Kinslow, material and labor furnished on the ore-testing building.....	576 879.60
Nov. 27.	Fraser & Chalmers, machinery for ore-testing works.....	577 1,012.50

1894.		No. Voucher.	Amount.
Dec. 29.	D. W. Sprague, setting up machinery in ore-testing works..	708	147.00
Jan. 5.	D. W. Sprague, setting up machinery in ore-testing works..	709	196.63
Jan. 12.	D. W. Sprague, setting up machinery in ore-testing works..	710	166.00
Jan. 19.	D. W. Sprague, setting up machinery in ore-testing works..	711	171.62
Dec. 1.	D. W. Sprague, freight on carload machinery for ore-testing works	712	113.50
Total			\$7,936.25
Balance in treasury Aug. 1, 1895.....			164.90
			<u>\$8,101.15</u>

DINING HALL AND DORMITORY.

By appropriation for dining hall and dormitory..... \$42,500.00

DISBURSEMENTS.

1895.		No. Voucher.	Amount.
Jan. 28.	De Lancy & Cooke, labor and material to construct dining hall and dormitory.....	1250	\$2,471.75
Jan. 27.	Charles R. Aldrich, plans and specifications for dining hall and dormitory	1320	500.00
May 29.	Pioneer Press Co., advertisement for proposals.....	1321	10.13
Total			\$2,981.88
Balance in treasury Aug. 1, 1895.....			39,518.12
			<u>42,500.00</u>

CAMPUS IMPROVEMENT.

By appropriation \$12,500.00

DISBURSEMENTS.

1895.		No. Voucher.	Amount.
April 17.	C. A. Erickson, rebuilding cesspool, boiler blow-off.....	1134	\$12.00
April 20.	Northrup-Braslan-Goodwin Co., grass seed.....	1135	38.72
April 27.	Northrup-Braslan-Goodwin Co., grass seed.....	1136	4.17
June 30.	Pay roll for grading campus.....	1247½	1,565.55
May 25.	T. F. Smith, removing debris of coliseum (burned.)	1248	91.00
May 18.	Fagan Bros., black soil and labor.....	1249	31.50
Aug. 24.	C. A. Smith Lumber Co., lumber.....	1324	38.08
Sept. 5.	John Kelly, putting in well on campus.....	1325	24.60
Sept. 26.	B. E. Trask, engineer services grading.....	1326	87.50
Sept. 30.	S. Kixmoller, grading pay roll.....	1327	1,275.60
Oct. 2.	R. B. Lees, laying sidewalks.....	1328	23.01
Oct. 14.	C. A. Smith Lumber Co., lumber.....	1329	42.39
Oct. 24.	Fred Youngren, water pipes and hydrants.....	1330	489.16
Nov. 1.	W. W. Sykes & Co., connecting water pipes.....	1331	154.30
Nov. 18.	S. Koxmoeller, grading pay roll.....	1332	998.33
Nov. 27.	R. B. Lees, laying crosswalks, etc.....	1333	30.40
Dec. 20.	Twin City Sidewalk and Paving Co., sidewalk and curb....	1334	3,644.30
Jan. 5.	Marson Company, delivering earth on campus.....	1335	1,540.55
April 20.	S. Koxmoeller, grading pay roll.....	1336½	61.79
Nov. 30.	A. B. Lawrence, 1,669½ yards earth.....	1337	342.90
Dec. 24.	L. C. Lawrence, filling on campus.....	1341	25.00
April 29.	L. C. Lawrence, grading on campus.....	1342	83.75
Total			\$10,604.60
By balance in treasury Aug. 1, 1895.....			1,895.40
			<u>\$12,500.00</u>

Special Annual Appropriation for Salaries of Instructors in the School
of Mines and Electrical Engineering.

Annual appropriation \$4,500.00

DISBURSEMENTS.

		No. Voucher.	Amount.
1894.			
Sept. 30.	Wm. R. Appleby, salary.....	324	\$220.00
Sept. 30.	Geo. D. Shepardson, salary.....	324	210.00
Sept. 30.	H. C. Cutler, salary.....	324	15.00
Oct. 31.	Wm. R. Appleby, salary.....	471	220.00
Oct. 31.	Geo. D. Shepardson, salary.....	471	210.00
Oct. 31.	H. C. Cutler, salary.....	471	15.00
Nov. 30.	Wm. R. Appleby, salary.....	578	220.00
Nov. 30.	Geo. D. Shepardson, salary.....	578	210.00
Nov. 30.	H. C. Cutler, salary.....	578	15.00
Dec. 31.	Wm. R. Appleby, salary.....	713	220.00
Dec. 31.	Geo. P. Shepardson, salary.....	713	210.00
Dec. 31.	H. C. Cutler, salary.....	713	15.00
1895.			
Jan. 31.	Wm. R. Appleby, salary.....	826	220.00
Jan. 31.	Geo. D. Shepardson, salary.....	826	210.00
Jan. 31.	H. C. Cutler, salary.....	826	15.00
Feb. 28.	Wm. R. Appleby, salary.....	952	220.00
Feb. 28.	Geo. D. Shepardson, salary.....	952	210.00
Feb. 28.	H. C. Cutler, salary.....	952	15.00
Mar. 31.	W. R. Appleby, salary.....	1043	220.00
Mar. 31.	Geo. D. Shepardson, salary.....	1043	210.00
Mar. 31.	H. C. Cutler, salary.....	1043	15.00
April 30.	Wm. R. Appleby, salary.....	1137	220.00
April 30.	Geo. D. Shepardson, salary.....	1137	210.00
April 30.	H. C. Cutler, salary.....	1137	15.00
May 31.	Wm. R. Appleby, salary.....	1251	220.00
May 31.	Geo. D. Shepardson, salary.....	1251	210.00
May 31.	H. C. Cutler, salary.....	1251	15.00
June 30.	Wm. R. Appleby, salary.....	1322	220.00
June 30.	Geo. D. Shepardson, salary.....	1322	210.00
June 30.	Peter Christianson, salary.....	1322	50.00
June 30.	H. C. Cutler, salary.....	1322	15.00
Total			<u>\$4,500.00</u>

FINANCIAL REPORT.

FOR THE FISCAL YEAR COMMENCING AUG. 1, 1895, AND ENDING JULY 31, 1896.

REVENUES—CURRENT EXPENSE FUND.

Balance on hand Aug. 1, 1895.....		\$73,751.11
From United States government, Hatch bill appropriation.	\$15,000.00	
From United States government, Morrill bill appropriation.	22,000.00	
From interest on university bonds.....	21,462.00	
From interest on land contracts.....	28,000.62	
From interest on bank deposits.....	2,375.85	
From stumpage.....	311.59	
From students' fees, all departments.....	55,314.95	
From sale of salt spring lands.....	4,021.52	
From sales of farm products.....	11,024.91	
From miscellaneous sources.....	1,912.13	
From 3-20 of one mill revenue tax.....	*110,070.97	
		<hr/> 271,494.54
Total		\$345,245.65

The following amounts were received from treasurer in auditor's warrants:

	Pay Rolls.	Bills.
Outstanding warrant Aug. 1, 1895.....	\$8,208.24	.....
July expense list.....		\$5,660.27
August expense list.....	4,806.41	5,798.06
September expense list.....	16,633.17	6,075.21
October expense list.....	17,412.58	9,030.15
November expense list.....	18,072.36	5,496.58
December expense list.....	17,612.90	5,869.13
January expense list.....	17,897.65	11,024.79
February expense list.....	17,804.46	5,374.76
March expense list.....	18,063.33	4,257.43
April expense list.....	17,708.17	4,354.71
May expense list.....	18,123.60	4,304.37
June expense list.....	.....	3,252.05
Totals	\$172,342.87	<hr/> \$70,497.51
		172,342.87
Total pay roll and bills.....		\$242,840.38
Fees paid county treasurer for land collections..		201.87
Premiums and interest on bonds purchased ...		157.12
Express and exchange paid by auditor to cor- rect error in charge made against permanent university fund.....		88.07
		<hr/> 243,287.44
Balance in treasury Aug. 1, 1896.....		\$101,958.21

*Note.—The revenue from the 3-20 of a mill tax for the year ending July 31, 1896, gave to the university \$110,070.97, or about \$16,000 in excess of what 3-20 of a mill tax would give on a valuation of \$640,000,000. This was occasioned by Hennepin county paying two years' taxes between Aug. 1, 1895, and July 31, 1896. The state board of equalization having reduced the total valuation of the taxable property of the state \$75,000,000, the university revenue will, as a result, be reduced from about \$94,000 to \$83,000.

GENERAL UNIVERSITY.

CURRENT EXPENSE—DISBURSEMENTS (1895-96).

1895.		No. Voucher.	Amount.
July 31.	D. W. Sprague, petty bills.....	63	\$22.26
July 27.	R. Alexander, furniture.....	64	961.09
July 25.	Herbert Chalker, stone steps, curbing, etc.....	65	1,150.00
July 23.	Minneapolis Office and School Furniture Co., furniture.....	66	10.00
July 27.	Walter Babcock, repairs.....	67	347.75
July 31.	Walter Babcock, repairs.....	68	124.24
June 30.	W. K. Morison & Co., supplies and repairs.....	69	89.14
July 30.	Trainor Bros., repairs.....	70	152.50
July 27.	Wheaton-Reynolds Co., supplies.....	71	6.30
July 20.	Curtiss & Yale Co., repairs.....	72	5.66
July 23.	C. Erickson, repairs.....	73	46.50
July 16.	D. M. Gilmore, trustee, plumbing.....	74	10.64
July 30.	J. H. Hagen & Co., repairs.....	75	75.00
July 30.	D. M. Gilmore, plumbing.....	76	39.76
July 30.	Geo. R. Newell & Co., supplies.....	77	6.85
July 15.	John A. Schlener & Co., stationery.....	78	10.10
May 23.	Leslie & McAfee, stationery.....	79	22.55
July 17.	Tribune Job Printing Co., printing.....	80	1.00
Aug. 1.	University Press, printing.....	81	7.00
July 31.	Wm. N. Brown, printing.....	82	14.00
Aug. 1.	Northwestern Telephone Exchange, service for August.....	90	6.00
Aug. 20.	Danz's orchestra, music for commencements, etc.....	121	145.00
July 9.	Homan Lime & Cement Co., supplies.....	124	18.00
Aug. 27.	D. W. Sprague, express and freight, gas, postage, labor and miscellaneous.....	129	436.35
June 20.	T. F. Smith, repairs.....	130	5.00
Aug. 31.	Pay roll for August.....	131	1,243.85
Aug. 31.	D. W. Sprague, petty bills.....	132	19.24
Aug. 15.	John A. Schlener & Co., stationery.....	133	15.55
Aug. 30.	H. L. Swain & Co., supplies.....	134	5.73
Aug. 16.	W. S. Nott & Co., hose and packing.....	135	29.40
July 21.	W. K. Morison & Co., supplies.....	136	48.36
Aug. 15.	Minneapolis Office and School Furniture Co., furniture.....	137	30.00
Aug. 17.	J. M. Tate, new postoffice boxes in book store.....	138	25.00
Aug. 8.	Leslie & McAfee, 244 reams examination paper.....	139	135.20
Aug. 8.	Glessner & Washburn, furniture.....	140	18.50
Aug. 8.	Glessner & Washburn, repairs.....	141	5.50
Aug. 29.	Chas. R. Aldrich, plans and specifications of furniture in library building.....	142	128.94
Aug. 31.	Harrison & Smith, 9,000 library labels.....	143	15.00
Sept. 2.	H. S. Breeden, work on government reports.....	144	37.80
Aug. 30.	The Great Western Printing Co., printing.....	145	58.60
Aug. 22.	Northwestern Composition Board Co., blackboards.....	146	131.54
Aug. 31.	Glessner & Washburn, 45 5-6 dozen chairs.....	147	939.58
Sept. 5.	J. S. Todd & Co., stationery.....	148	6.40
Aug. 1.	Thompson & Lees, general fittings.....	166	23.07
Aug. 15.	The Tension Envelope Co., 10,000 tension envelopes.....	167	51.50
Aug. 15.	D. M. Gilmore, plumbing.....	168	15.01
Aug. 30.	W. I. Gray & Co., electric lighting in library building.....	170	68.00
Aug. 30.	World's Fair Shoeing Shop, horseshoeing.....	197	11.85
Aug. 19.	Northrup-Braslan-Goodwin Co., grass seed.....	198	30.35
Aug. 29.	Swan Clausen, catchbasins and pipe.....	199	110.00
Sept. 30.	W. D. Sprague, gas, express and freight, postage, labor and miscellaneous.....	200	369.00
Sept. 30.	Pay roll for September.....	232	1,407.50
Sept. 30.	D. W. Sprague, petty bills.....	233	13.76
Sept. 1.	W. J. Dyer & Bro., miscellaneous.....	234	15.00
Sept. 9.	The Dickinson Co., supplies.....	235	10.79
Sept. 25.	Leslie & McAfee, stationery.....	236	13.99
Sept. 30.	Tribune Job Printing Co., printing.....	237	9.25
Sept. 16.	R. Alexander, general fittings.....	238	90.64
Sept. 24.	W. I. Gray & Co., electric wiring.....	239	43.14
Sept. 9.	University Press, printing.....	240	8.50
Oct. 1.	W. S. Nott & Co., gaskets and packing.....	241	8.54
Sept. 30.	Northwestern Foundry, 24 grate bars.....	242	36.12
Sept. 19.	Farnham Marble Co., drinking fountain.....	243	5.00
Sept. 30.	C. A. Smith & Co., supplies.....	244	71.09
Sept. 30.	D. M. Gilmore, plumbing.....	245	29.74
Sept. 28.	Goodnow & Lawther, fuel.....	246	12.50
Oct. 1.	American Soap and Chemical Co., one barrel Kleansall soap.....	247	32.55
Sept. 30.	John A. Schlener & Co., stationery.....	248	12.00
Sept. 28.	Minneapolis Office and School Furniture Co., furniture.....	249	790.44
Sept. 3.	Walter Babcock, repairs.....	250	265.00
Aug. 30.	Cody-Hineline Co., plumbing.....	251	7.60
Sept. 21.	Morgan Envelope Co., stationery.....	252	34.80

1895.		No. Voucher.	Amount.
Aug. 31.	W. K. Morison & Co., supplies.....	253	39.63
Sept. 11.	Great Western Printing Co., printing.....	254	103.10
Sept. 30.	C. Erickson, repairs.....	255	45.00
Oct. 16.	Northwestern Fuel Co., fuel.....	256	334.47
Sept. 26.	Trainor Bros., repairs.....	265	8.86
Oct. 1.	Janney, Semple & Co., supplies.....	272	.65
Sept. 26.	Twin City Supply Co., supplies.....	280	7.20
Sept. 13.	Lyman-Elmel Drug Co., supplies.....	285	.75
Oct. 1.	Northwestern Telephone Exchange, service for October.....	287	6.00
Oct. 18.	Minnesota Librery Magazine, one-half page advertisement..	322	7.50
Oct. 24.	D. W. Sprague, freight and express, postage, gas, labor and miscellaneous	338	369.62
Oct. 31.	Pay roll for October.....	381	1,483.45
Oct. 31.	D. W. Sprague, petty bills.....	382	18.60
Oct. 14.	Leslie & McAfee, supplies.....	383	39.30
Sept. 30.	W. K. Morison & Co., supplies.....	384	49.62
Oct. 25.	Moffett, Bushnell & Co., supplies.....	385	10.00
Oct. 28.	Pioneer Press Co., 100 teachers' record books.....	386	20.00
Nov. 1.	The Ariel Association, advertisement 1895-6.....	387	100.00
Oct. 9.	Kelly & Lamb, plumbing.....	388	15.34
Oct. 17.	Minnesota Linseed Oil Works, supplies.....	389	21.17
Oct. 25.	Minneapolis Stamp Co., rubber stamps.....	390	19.05
Oct. 31.	Northwestern Fuel Co., fuel.....	391	279.95
Oct. 23.	Northwestern Composition Board Co., blackboards.....	392	20.09
Oct. 31.	Great Western Printing Co., stationery and printing.....	394	11.85
Oct. 31.	University Press, stationery and printing.....	395	4.00
Nov. 30.	C. A. Smith & Co., supplies.....	396	6.63
Nov. 1.	N. P. Stewart, service as chapel organist.....	397	25.00
Oct. 30.	Tribune Job Printing Co., printing.....	398	31.00
Oct. 21.	Beard Art Co., stationery.....	399	36.40
Oct. 18.	Goodnow & Lawther, fuel.....	420	225.50
Oct. 29.	C. A. Smith & Co., supplies.....	424	34.00
Oct. 25.	John A. Schlener & Co., stationery.....	444	4.09
Oct. 31.	Northwestern Telephone Exchange, service for November...	446	6.00
Nov. 26.	D. W. Sprague, freight and express, postage, gas, labor and miscellaneous	508	287.35
Nov. 30.	Pay roll for November.....	575	1,583.48
Nov. 30.	D. W. Sprague, petty bills.....	576	11.49
June 1.	Miller Printing Co., printing.....	577	25.10
Nov. 6.	Goodnow & Lawther, fuel.....	578	62.53
Nov. 1.	Lucas Bros., one galvanized iron box.....	579	6.90
Nov. 1.	Trainor Bros., repairs.....	580	23.60
Nov. 22.	D. M. Gilmore & Co., supplies.....	581	13.85
Nov. 25.	Northwestern Fuel Co., fuel.....	582	1,140.73
Nov. 7.	Geo. R. Newell & Co., supplies.....	585	6.85
Nov. 14.	James Bladon & Co., gas and electric fixtures.....	586	152.27
Oct. 31.	W. K. Morison & Co., supplies.....	588	48.15
Nov. 19.	Moffett, Bushnell & Co., supplies.....	589	4.35
Nov. 30.	Great Western Printing Co., printing.....	590	88.85
Nov. 20.	Tribune Job Printing Co., printing.....	591	6.25
Nov. 30.	John A. Schlener & Co., stationery.....	593	10.65
Nov. 13.	New York and Ohio Co., incandescent lamps.....	603	30.00
Nov. 29.	W. W. Dakin, apparatus and instruments.....	604	22.60
Nov. 7.	Electrical Engineering Co., apparatus and instruments.....	606	12.24
Dec. 1.	University Press, printing.....	607	8.50
Nov. 30.	Northwestern Telephone Exchange, service for December....	619	6.00
Nov. 26.	Leslie & McAfee, supplies.....	622	2.70
Dec. 26.	D. W. Sprague, freight and express, postage, gas, labor and miscellaneous	668	314.25
Dec. 31.	Pay roll for December.....	709	1,770.50
Dec. 31.	D. W. Sprague, petty bills.....	710	5.43
Dec. 1.	Consumers' Gas Saving Co., rent 9 regulators.....	711	30.00
Dec. 31.	University Press, printing.....	713	4.75
Dec. 17.	Office Specialty Manufacturing Co., furniture.....	714	10.00
Nov. 2.	World's Fair Shoeing Shop, horseshoeing.....	716	5.50
Dec. 12.	L. Wolff Manufacturing Co., tools.....	717	6.20
Dec. 26.	Moffett, Thurston & Plank Printing Co., printing.....	718	10.00
Sept. 9.	John A. Schlener & Co., stationery.....	719	10.45
Nov. 30.	W. K. Morison & Co., supplies.....	720	72.75
Dec. 31.	Northwestern Fuel Co., fuel.....	721	2,055.75
Dec. 15.	K. Alexander, furniture.....	722	19.00
Dec. 31.	Northwestern Telephone Exchange, service for January.....	739	6.00
Jan. 1.	Great Western Printing Co., printing.....	747	2.50
Dec. 31.	James W. Day, ice bills 1895.....	789	180.25
Jan. 28.	D. W. Sprague, freight and express, postage, gas, labor and miscellaneous	790	160.64
Jan. 31.	Pay roll for January.....	843	1,529.42
Jan. 31.	D. W. Sprague, petty bills.....	844	30.05

1895.		No. Voucher.	Amount.
Jan. 4.	Pioneer Press Co., stationery.....	845	27.45
Jan. 23.	Pioneer Press Co., stationery.....	846	33.70
1896.			
Jan. 31.	Northwestern Fuel Co., fuel.....	847	1,855.40
Dec. 16.	Northwestern Fuel Co., fuel.....	848	183.61
Jan. 10.	Wm. W. Folwell, transportation and expenses.....	849	41.00
Jan. 31.	University Press, printing.....	850	24.40
Jan. 31.	Consumers' Gas Saving Co., rent of 9 regulators.....	851	20.00
Dec. 31.	Minnesota Magazine, advertisement.....	853	12.50
Jan. 24.	John A. Schlener Co., stationery	854	1.15
Jan. 11.	J. S. Todd & Co., stationery.....	855	10.08
Jan. 18.	Kelly & Lamb, 80 feet standing radiation.....	856	20.00
Dec. 31.	W. K. Morison & Co., supplies.....	857	19.24
Jan. 24.	The Wilson-Clark Co., supplies.....	858	11.00
Jan. 13.	Northwestern Foundry, repairs.....	859	29.28
Jan. 31.	Great Western Printing Co., printing.....	867	1.85
Feb. 1.	Northwestern Telephone Exchange, service for February....	878	6.00
Jan. 20.	Lyman-Eliei Drug Co., supplies.....	879	1.21
Dec. 23.	J. E. Burt Portrait Co., one gilt frame.....	934	20.00
Feb. 25.	D. W. Sprague, freight and express, gas, postage, labor, miscellaneous	935	354.58
Feb. 29.	Pay roll for February.....	979	1,507.50
Feb. 29.	D. W. Sprague, petty bills.....	980	8.14
Feb. 11.	Ernest A. Wright, diplomas.....	981	373.75
Feb. 26.	Northwestern Fuel Co., fuel.....	982	1,545.73
Jan. 16.	Lenhart Wagon Co., bob sleds and repairs.....	983	15.65
Feb. 25.	Wilson-Clark Co., supplies.....	984	24.52
Jan. 31.	W. K. Morison & Co., tools and supplies.....	985	15.48
Feb. 20.	John A. Schlener & Co., stationery.....	986	6.53
Feb. 21.	John A. Schlener & Co., stationery.....	987	17.95
Feb. 24.	Tribune Job Printing Co., printing.....	988	18.25
Feb. 5.	Standard Oil Co., supplies.....	989	11.60
Feb. 19.	Geo. R. Newell & Co., supplies.....	990	6.85
Feb. 24.	Leslie & McAfee, supplies.....	991	22.50
Feb. 20.	Goodnow & Lawther, fuel.....	992	12.50
Feb. 1.	Littlefield & Yerk, equipment.....	993	14.31
Feb. 29.	Great Western Printing Co., printing.....	994	58.50
Feb. 28.	Conway MacMillan, trip to Chicago.....	995	45.00
Feb. 28.	Ina Firkins, extra work in library.....	996	40.00
Mar. 4.	University Press, printing.....	997	4.25
Feb. 25.	Lyman-Eliei Drug Co., 2 gross matches.....	1015	1.50
Mar. 1.	Northwestern Telephone Exchange, service for March.....	1023	6.00
Mar. 28.	D. W. Sprague, freight, gas, postage, labor and miscellaneous	1046	355.38
Mar. 31.	Pay roll for March.....	1076	1,537.50
Mar. 31.	D. W. Sprague, petty bills.....	1077	9.80
Mar. 27.	Northwestern Fuel Co., fuel.....	1078	1,121.61
Feb. 24.	Horman Lime and Cement Co., supplies.....	1079	6.75
Mar. 25.	Leslie & McAfee, stationery.....	1080	239.30
April 1.	Great Western Printing Co., stationery.....	1081	18.25
Mar. 31.	Consumers' Gas Saving Co., rent of regulators.....	1082	20.00
Mar. 28.	R. B. Thompson, furniture and supplies.....	1083	9.43
Mar. 29.	A. W. Guild, tools and machinery.....	1084	30.00
April 1.	The "Gopher," 1897, advertisement.....	1085	25.00
April 1.	University Press, printing.....	1086	8.60
April 6.	Minneapolis Paper Co., stationery.....	1088	387.20
Mar. 21.	Tribune Job Printing Co., printing.....	1091	10.00
Mar. 30.	Electrical Engineering Co., supplies.....	1096	2.50
Feb. 27.	L. M. Coleman, lamps in library.....	1097	20.00
Feb. 29.	W. K. Morison & Co., supplies.....	1113	8.45
Mar. 23.	L. Wolff Manufacturing Co., plumbing.....	1117	4.20
April 1.	Northwestern Telephone Exchange, service for April.....	1120	6.00
Mar. 26.	Rickard & Gruman, embossing diplomas.....	1123	3.00
April 27.	D. W. Sprague, freight, gas, postage, labor and miscellaneous	1153	91.01
April 21.	Peter Spanoit, equipment museum.....	1155	27.00
April 30.	Pay roll for April.....	1189	1,557.50
April 25.	Northwestern Fuel Co., fuel.....	1191	789.62
Feb. 20.	C. A. Erickson, repairs.....	1192	5.50
April 30.	Consumers' Gas Saving Co., rent of regulators.....	1194	10.00
April 21.	C. A. Smith Lumber Co., repairs.....	1195	26.16
April 24.	D. M. Gilmore & Co., repairs.....	1196	3.70
April 25.	Tribune Job Printing Co., stationery and printing.....	1197	23.25
April 24.	Minnesota Magazine, advertisement.....	1199	10.00
April 29.	Leonard Soap Co., petty supplies.....	1200	37.92
April 7.	John A. Schlener & Co., furniture and supplies.....	1201	15.55
April 25.	Goodnow & Lawther, fuel.....	1202	103.63
Mar. 26.	Moffett, Bushnell & Co., stationery and printing.....	1203	6.00
April 3.	McClellan Paper Co., stationery and printing.....	1205	9.63

1896.		No. Voucher.	Amount.
April 14.	Leslie & McAfee, stationery and printing.....	1206	38.88
April 16.	Weeber & Kletzin, feed.....	1207	4.12
May 2.	Great Western Printing Co., printing.....	1208	862.48
May 1.	Northwestern Telephone Exchange, service for May.....	1222	6.00
May 22.	D. W. Sprague, freight, gas, postage, labor and miscellaneous	1270	197.01
May 31.	Pay roll for May.....	1321	1,527.50
May 31.	D. W. Sprague, petty bills.....	1322	4.35
May 23.	Janney, Semple & Co., supplies.....	1323	5.35
May 1.	University Press, stationery and printing.....	1324	9.30
May 27.	Tribune Job Printing Co., printing.....	1326	9.00
June 1.	Great Western Printing Co., stationery and printing.....	1327	26.25
May 28.	Ernest A. Wright, stationery and printing.....	1328	23.75
May 28.	Minneapolis Paper Co., stationery.....	1329	33.80
May 26.	John A. Schlener & Co., stationery.....	1331	12.50
May 22.	Leslie & McAfee, supplies.....	1332	22.50
May 23.	Rickard & Gruman, embossing diplomas.....	1333	166.00
May 13.	Geo. R. Newell & Co., supplies.....	1334	9.35
May 5.	Union Railway Storage Co., supplies.....	1335	5.38
May 19.	Goodnow & Lawther, fuel.....	1336	24.68
May 20.	D. M. Gilmore & Co., tools.....	1337	13.00
May 23.	Northwestern Fuel Co., fuel.....	1338	10.50
May 13.	Forman, Ford & Co., repairs.....	1340	10.12
May 25.	Weeber & Kletzin, feed.....	1341	5.23
May 30.	Consumers' Gas Saving Co., rent of regulators.....	1348	10.00
May 11.	J. E. Burt Portrait Co., repairs.....	1352	30.00
May 30.	D. W. Sprague, freight and express, gas, postage, labor and miscellaneous	1413	753.14
June 4.	F. B. Janney, use Exposition auditorium for commencement exercises	1414	25.00
June 30.	D. W. Sprague, petty bills.....	1467	2.66
May 1.	Edward C. Gale, taxes.....	1468	50.00
June 11.	Northern Pressed Brick Co., supplies.....	1469	5.70
June 24.	Boyce Bros. & Co., repairs.....	1470	28.50
July 1.	University Press, stationery and printing.....	1471	29.05
June 9.	Brown & Haywood Co., repairs.....	1472	15.20
June 6.	Ernest A. Wright, stationery and printing.....	1474	10.20
June 11.	Danz's Orchestra, contingent expense.....	1473	85.00
June 26.	Leslie & McAfee, stationery.....	1475	5.05
June 6.	John A. Schlener & Co., stationery.....	1476	7.50
June 1.	The Northwestern Magazine, August advertisement.....	1477	25.00
June 30.	Northwestern Telephone Exchange, service for June and July	1478	12.00
June 8.	D. M. Gilmore & Co., 1,200 feet 1½-inch pipe.....	1479	71.55
June 13.	Northwestern Star Oil Co., supplies.....	1480	21.20
June 6.	Rickard & Gruman, embossing diplomas.....	1481	40.50
June 8.	The Ariel, 350 copies.....	1482	35.00
June 12.	Eugene Smith, supplies.....	1483	183.50
June 8.	W. S. Nott Co., supplies.....	1484	51.10
June 10.	The "Gopher," 1897, 100 copies.....	1485	100.00
June 29.	Great Western Printing Co., stationery and printing.....	1486	34.25
April 30.	Minneapolis Paper Box Co., equipment.....	1487	6.50
April 30.	Harrison & Smith, supplies.....	1488	6.50
June 30.	Tribune Job Printing Co., stationery and printing.....	1489	8.00
June 30.	W. K. Morison & Co., tools and supplies.....	1490	135.47
July 30.	D. W. Sprague, freight and express, gas, postage, labor and miscellaneous	1550	126.45
Total			<u>\$41,304.78</u>

COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

CURRENT EXPENSE.

1895.		No. Voucher.	Amount.
July 31.	D. W. Sprague, petty bills.....	63	\$12.10
July 2.	Ernst Leitz, apparatus and instruments.....	83	66.25
July 18.	Lyman-Eliehl Drug Co., supplies.....	86	6.32
Aug. 27.	D. W. Sprague, freight, gas, postage, labor and miscellaneous	129	32.58
Aug. 31.	Pay roll for August.....	131	250.00
Aug. 31.	D. W. Sprague, petty bills.....	132	10.25
Aug. 19.	A. S. Flint, salary employe.....	150	8.00
Aug. 10.	Wheaton, Ryenolds & Co., furniture.....	151	71.50

1895.		No. Voucher.	Amount.
June 21.	Eimer & Amend, apparatus and instruments.....	152	68.09
Aug. 3.	E. G. Smith, apparatus.....	153	16.00
Aug. 15.	Eimer & Amend, supplies	154	37.50
Aug. 12.	Moffett, Thurston & Plank, 1,500 large envelopes.....	165	5.50
Aug. 13.	W. W. Dakin, apparatus and repairs.....	169	59.50
Sept. 30.	D. W. Sprague, gas, freight and express, labor and miscellaneous	200	60.62
Sept. 30.	Pay roll for September.....	232	6,535.00
Sept. 30.	D. W. Sprague, petty bills.....	233	1.50
Sept. 25.	Leslie & McAfee, stationery.....	236	9.15
Sept. 30.	Tribune Job Printing Co., printing.....	237	8.00
Sept. 30.	C. A. Smith Lumber Co., supplies.....	244	16.51
Sept. 30.	John A. Schlener & Co., stationery.....	248	3.75
Sept. 28.	Minneapolis Office and School Furniture Co., furniture.....	249	40.00
Sept. 30.	Biological Laboratory, supplies.....	258	8.00
Sept. 12.	Wheaton, Reynolds & Co., furniture.....	259	258.75
Sept. 28.	D. T. MacDougal, freight and transportation.....	260	400.00
Sept. 30.	J. W. Weaver, window screens.....	261	5.50
Sept. 25.	C. E. Magnusson, salaries employes.....	262	16.00
Sept. 27.	F. R. Warner, tools and supplies.....	263	15.44
Sept. 13.	Lyman-Eliel Drug Co., supplies.....	285	17.80
Aug. 5.	J. G. Swahn's Sons, supplies.....	326	5.00
Sept. 16.	C. J. Hibbard, furniture.....	327	7.00
Oct. 24.	D. W. Sprague, gas, freight and express, labor, postage, miscellaneous	338	442.65
Oct. 31.	Pay roll for October.....	381	6,533.00
Oct. 31.	D. W. Sprague, petty bills.....	382	9.35
Sept. 30.	W. K. Morison & Co., supplies.....	384	1.60
Oct. 25.	Moffett, Bushnell & Co., supplies.....	385	8.00
Oct. 31.	The Great Western Printing Co., printing.....	394	21.25
Oct. 31.	University Press, printing.....	395	8.25
Sept. 23.	D. Appleton & Co., printing.....	400	11.65
Sept. 21.	Bausch & Lomb Optical Co., apparatus.....	401	93.41
Oct. 1.	Bausch & Lomb Optical Co., apparatus.....	402	252.78
Oct. 9.	Marine Biological Laboratory, supplies.....	403	77.05
Oct. 7.	H. Gale, supplies.....	404	7.18
Oct. 9.	Müller & Co., apparatus.....	405	8.00
Aug. 30.	Cody-Hineline Co., plumbing.....	406	103.35
June 29.	Whitall, Tatum & Co., supplies.....	407	147.05
Oct. 19.	Irene Fowler, mimeographing and supplies.....	408	6.13
Dec. 6.	Richard Kuy & Co., apparatus.....	409	53.65
Oct. 31.	Fred S. Jones, stamps and supplies.....	112	5.45
Oct. 23.	Minneapolis Office and School Furniture Co., furniture.....	113	33.00
Nov. 26.	D. W. Sprague, freight and express, gas, labor and miscellaneous	508	200.33
Nov. 30.	Pay roll for November.....	575	6,528.50
Nov. 30.	D. W. Sprague, petty bills.....	576	9.13
Nov. 22.	C. A. Smith & Co., supplies.....	584	6.57
Nov. 14.	James Bladon & Co., electric light fixtures.....	586	4.75
Nov. 13.	Glessner & Washburn, furniture.....	587	4.50
Nov. 30.	Great Western Printing Co., printing.....	590	11.00
Nov. 15.	Richards & Co., supplies.....	594	147.92
Aug. 29.	Wheaton, Reynolds & Co., furniture.....	595	50.35
Nov. 4.	H. L. Swain & Co., repairs and supplies.....	596	8.25
Nov. 26.	Geo. B. Frankforter, postage.....	597	6.00
Nov. 12.	Bausch & Lomb Optical Co., apparatus and supplies.....	598	26.42
Oct. 7.	E. S. Ritchie & Sons apparatus.....	599	11.40
Nov. 1.	National Brass & Metal Co., supplies.....	600	11.39
Oct. 25.	University Book Store, books and supplies.....	601	19.39
Oct. 28.	Minneapolis Office and School Furniture Co., furniture.....	602	38.00
Nov. 29.	W. W. Dakin, apparatus.....	604	19.80
Dec. 1.	University Press, printing.....	607	2.50
Nov. 26.	Leslie & McAfee, supplies.....	622	1.45
Dec. 26.	D. W. Sprague, freight and express, gas, postage and miscellaneous	668	77.49
Dec. 31.	Pay roll for December.....	709	6,577.00
Dec. 31.	D. W. Sprague, petty bills.....	710	10.30
Dec. 31.	University Press, printing.....	713	24.00
Dec. 21.	D. M. Gilmore & Co., plumbing.....	715	5.23
Aug. 7.	Gustav Fock, books for library.....	724	7.23
Dec. 11.	M. M. Osborn, supplies.....	728	10.00
Dec. 19.	Noyes Bros. & Cutler, supplies.....	735	9.00
Jan. 1.	Great Western Printing Co., printing.....	747	16.25
Jan. 28.	D. W. Sprague, express, gas, postage, labor and miscellaneous	790	48.71
Jan. 31.	Pay roll for January.....	843	6,572.00
Jan. 31.	D. W. Sprague, petty bills.....	844	10.48
Jan. 24.	John A. Schlener & Co., stationery.....	854	1.80
Dec. 31.	W. K. Morison & Co., supplies.....	857	1.05

1895.		No. Voucher.	Amount.
Aug. 30.	Max Kaehler & Martini, apparatus and supplies.....	860	2,940.79
Dec. 5.	Noyes Bros. & Cutler, supplies.....	861	83.88
Dec. 31.	Bausch & Lomb Optical Co., apparatus.....	862	7.31
Jan. 28.	K. F. Koehler's Antiquarium, books for library.....	863	186.97
Jan. 7.	Richards & Co., apparatus and supplies.....	864	233.90
Jan. 13.	Emma F. Allen, salary of employe.....	865	12.00
Jan. 21.	Noyes Bros. & Cutler, supplies.....	866	35.31
Jan. 31.	Great Western Printing Co., printing.....	867	43.70
Feb. 25.	D. W. Sprague, freight and express, gas, postage, labor and miscellaneous	935	49.45
Feb. 29.	Pay roll for February.....	979	6,602.00
Feb. 29.	D. W. Sprague, petty bills.....	980	8.81
Mar. 4.	University Press, printing.....	997	12.75
Dec. 16.	Corning & Co., supplies.....	998	56.35
Feb. 1.	Thompson & Lees, instruments.....	999	5.00
Feb. 26.	F. W. Sardeson, mounting charts.....	1000	41.90
Feb. 8.	Glessner & Washburn, furniture.....	1001	11.00
Mar. 28.	D. W. Sprague, freight, gas, postage, labor and miscellaneous	1046	110.17
Mar. 31.	Pay roll for March.....	1076	6,713.67
Mar. 31.	D. W. Sprague, petty bills.....	1077	21.97
Mar. 25.	Leslie & McAfee, stationery.....	1080	3.75
Mar. 25.	R. B. Thompson, furniture and supplies.....	1083	1.00
April 1.	University Press, printing.....	1086	9.25
Mar. 11.	Charles F. McClumpha, supplies.....	1089	10.60
Mar. 5.	Richards & Co., apparatus and supplies.....	1090	149.35
Feb. 10.	Richards & Co., supplies.....	1092	19.98
Mar. 18.	C. W. Meneilley, apparatus and supplies.....	1093	5.32
Feb. 25.	H. L. Swain & Co., apparatus.....	1094	16.70
Mar. 1.	F. G. McMillan, furniture.....	1095	14.50
Mar. 31.	A. H. Elftman, salary of assistant.....	1103	35.00
1896.			
Mar. 23.	L. Wolff Manufacturing Co., plumbing.....	1117	3.84
April 27.	D. W. Sprague, labor, gas, freight and express, postage and miscellaneous	1153	52.70
April 30.	Pay roll for April.....	1189	6,773.67
April 30.	D. W. Sprague, petty bills.....	1190	15.74
Mar. 27.	W. K. Morison & Co., fixtures	1193	29.50
April 1.	Glessner & Washburn, fixtures.....	1204	7.00
April 10.	Irene Fowler, printing.....	1209	7.54
April 17.	Lyman-Eliel Drug Co., supplies.....	1210	5.94
April 25.	Richards & Co., supplies.....	1211	167.54
April 21.	Henry F. Nachtrieb, supplies.....	1212	14.68
Dec. 31.	W. W. Dakin, apparatus.....	1213	7.00
April 27.	University Book Store, apparatus.....	1214	40.80
April 24.	Aylsworth & Jackson, apparatus.....	1215	10.00
April 1.	W. J. Dyer & Bro., miscellaneous.....	1216	3.00
Mar. 31.	Beard Art Co., supplies.....	1231	8.00
April 16.	Dr. A. E. Foote, books for library.....	1268	36.90
July 16.	Richard Kuy & Co., supplies.....	1269	5.60
May 22.	D. W. Sprague, freight and express, gas, labor and miscel- laneous	1270	94.59
May 31.	Pay roll for May.....	1321	6,794.67
May 31.	D. W. Sprague, petty bills.....	1322	10.30
May 1.	University Press, stationery and printing.....	1324	14.83
May 5.	Simonson Bros. Manufacturing Co., supplies.....	1330	5.40
May 28.	Chas. N. Hewett, professional services.....	1339	150.00
May 20.	E. G. Smith, apparatus and instruments.....	1342	30.00
May 29.	James G. Biddle, apparatus and instruments.....	1343	182.40
May 11.	Aylsworth & Jackson, apparatus and instruments.....	1344	25.00
May 21.	Conway MacMillan, contingent expenses.....	1345	7.76
May 22.	Electric Appliance Co., apparatus and instruments.....	1346	5.95
May 25.	Irene Fowler, wages of employes.....	1347	10.28
April 22.	New York & Ohio Co., apparatus.....	1349	10.15
May 6.	Electrical Engineering Co., apparatus.....	1350	2.06
May 23.	Nannie E. Jackson, salary of employe.....	1351	20.00
May 14.	L. E. Knott Apparatus Co., apparatus.....	1353	6.10
May 25.	University Book Store, books for library.....	1374	41.00
June 30.	D. W. Sprague, freight and express, gas, labor, postage and miscellaneous	1413	75.39
June 30.	D. W. Sprague, petty bills.....	1467	4.50
July 1.	University Press, stationery and printing.....	1471	15.75
June 29.	Great Western Printing Co., stationery and printing.....	1486	28.00
June 6.	Williams, Brown & Earle, supplies.....	1491	26.06
May 23.	J. E. Tilden, drawing and clerical work.....	1492	5.00
June 1.	Irene Fowler, mimeographing.....	1493	6.43
June 6.	Caroline Fullerton, salary employe.....	1494	10.80
May 28.	Beard Art Co., letter heads.....	1495	4.25
May 28.	Zimmerman Bros., photographic supplies.....	1496	5.94

1896.		No. Voucher.	Amount
June 24.	C. A. Smith Lumber Co., repairs.....	1497	20.25
Feb. 19.	Gustav E. Stechert, books for library.....	1498	176.93
Feb. 29.	Great Western Printing Co., binding 63 volumes for library.	1499	45.68
May 29.	C. W. Hall, postage and supplies.....	1500	29.66
April 27.	University Book Store, library.....	1501	21.39
Feb. 11.	Oswald Weigel, books for library.....	1505	15.41
May 4.	A. H. Elftman, salary employe.....	1517	10.00
May 28.	New York and Ohio Co., apparatus.....	1547	16.00
July 1.	W. W. Dakin, apparatus and instruments.....	1548	69.55
July 30.	D. W. Sprague, freight and express, postage, labor, gas and Miscellaneous	1550	66.12
Total			\$69,048.03

Military Science.

CURRENT EXPENSE.

1895.		No. Voucher.	Amount.
Aug. 31.	Pay roll for August.....	131	\$100.00
Sept. 30.	D. W. Sprague, freight and express.....	200	2.66
Sept. 30.	Pay roll for September.....	232	50.00
Sept. 30.	John A. Schlener & Co., stationery.....	248	1.00
Oct. 31.	Pay roll for October.....	381	83.00
Sept. 25.	W. J. Dyer & Bro., supplies.....	411	11.07
Nov. 26.	D. W. Sprague, iron tank for powder.....	508	6.00
Nov. 30.	Pay roll for November.....	575	83.00
Aug. 31.	W. J. Dyer & Bros., repairs.....	608	20.00
Dec. 31.	Pay roll for December.....	709	83.00
Jan. 31.	Pay roll for January.....	843	83.00
Feb. 29.	Pay roll for February.....	979	50.00
Mar. 31.	Pay roll for March.....	1076	50.00
Mar. 31.	D. W. Sprague, petty bills.....	1077	4.29
April 30.	Pay roll for April.....	1189	50.00
April 1.	W. J. Dyer & Bro., cadet band music.....	1216	5.63
April 30.	H. A. Leonhaeuser, freight, repairs and supplies.....	1217	5.45
April 1.	Rudolph Wurlitzer Co., apparatus and instruments.....	1218	12.15
May 31.	Pay roll for May.....	1321	83.00
June 30.	D. W. Sprague, contingent expenses.....	1413	7.05
June 30.	D. W. Sprague, petty bills.....	1467	4.25
July 30.	D. W. Sprague, express.....	1550	1.29
Total			\$795.84

COLLEGE OF MECHANICS ARTS.

CURRENT EXPENSE.

1895		No. Voucher.	Amount.
July 31.	D. W. Sprague, petty bills.....	63	\$3.34
July 26.	Canfield-Shotwell Co., repairs.....	84	23.00
July 30.	United States Coast and Geodetic Survey, making 300 feet steel tape	87	5.50
June 13.	Carl Bamberg, apparatus and instruments.....	128	59.90
Aug. 27.	D. W. Sprague, gas bill.....	129	2.50
Aug. 31.	Pay roll for August.....	131	95.00
July 5.	Electrical Engineering Co., apparatus.....	155	9.37
July 30.	Trainer Bros., repairs blast furnace.....	158	73.70
Sept. 30.	D. W. Sprague, freight and express, postage, gas, labor and miscellaneous	200	137.54
Sept. 30.	Pay roll for September.....	232	1,795.00
Sept. 30.	D. W. Sprague, petty bills.....	233	17.56
Sept. 30.	C. A. Smith & Co., lumber supplies.....	244	1.46
Sept. 28.	Goodnow & Lawther, fuel.....	246	7.90
Sept. 30.	John A. Schlener & Co., stationery.....	248	1.15

1895.

No. Voucher. Amount.

Sept. 21.	Morgan Envelope Co., stationery	252	4.98
Sept. 26.	Trainer Bros., repairs.....	265	14.30
Sept. 24.	Stoddard Hardware Co., supplies.....	266	30.44
Sept. 16.	The S. Obermayer Co., supplies.....	267	9.50
Sept. 13.	Crosby Steam Gauge Co., one gauge tester.....	268	40.00
Sept. 5.	Lintges, Connells & Co., supplies.....	269	35.12
Sept. 23.	Burtis & Howard, apparatus.....	270	20.88
Sept. 17.	Northwestern Composition Board Co., blackboards.....	271	37.26
Oct. 1.	Janney, Semple & Co., supplies.....	272	32.03
Sept. 19.	New York and Ohio Co., apparatus.....	273	18.75
Sept. 2.	J. M. Tate, machinery.....	274	30.00
Oct. 24.	D. W. Sprague, gas, express, postage and miscellaneous....	338	12.22
Oct. 31.	Pay roll for October.....	381	1,820.00
Oct. 31.	D. W. Sprague, petty bills.....	382	5.00
Oct. 31.	Great Western Printing Co., printing.....	394	15.50
Oct. 31.	University Press, printing.....	395	4.00
Oct. 23.	Minneapolis Office and School Furniture Co., furniture.....	413	34.00
Oct. 25.	Stoddard Hardware Co., tools and supplies.....	414	14.21
Oct. 4.	Janney, Semple & Co., supplies.....	415	13.80
Oct. 18.	Crescent Steel Works, supplies.....	416	72.93
Oct. 19.	Electrical Engineering Co., supplies.....	417	14.15
Oct. 29.	O. K. Higley, labor.....	418	15.00
Oct. 24.	R. Alexander, general fittings.....	419	54.50
Oct. 18.	Goodnow & Lawther, fuel.....	420	7.25
Sept. 28.	Crane & Ordway Co., supplies.....	421	8.69
Oct. 11.	Squires & Todd, repairs	422	55.00
Oct. 24.	H. E. Smith, postage and supplies.....	423	5.05
Oct. 29.	C. A. Smith Co., supplies.....	424	93.20
Sept. 14.	C. Hennecke Co., equipment.....	425	35.18
Oct. 25.	John Schlener & Co., stationery.....	444	2.75
Oct. 17.	Smith & Wyman, furniture.....	456	100.00
Nov. 26.	D. W. Sprague, freight and express, gas, postage and mis- cellaneous	508	70.91
Nov. 30.	Pay roll for November.....	575	1,880.00
Nov. 30.	D. W. Sprague, petty bills.....	576	15.32
Nov. 19.	Moffett, Bushnell & Co., supplies.....	589	1.75
Nov. 20.	Tribune Job Printing Co., printing.....	591	3.25
Nov. 19.	Richards & Co., supplies.....	594	21.07
Nov. 21.	Stoddard Hardware Co., supplies.....	605	15.66
Nov. 7.	Electrical Engineering Co., apparatus and instruments.....	606	6.62
Dec. 1.	University Press, printing.....	607	31.75
Dec. 26.	D. W. Sprague, freight and express, gas, postage, labor and miscellaneous	668	25.32
Dec. 31.	Pay roll for December.....	709	1,826.00
Dec. 31.	D. W. Sprague, petty bills.....	710	13.02
Dec. 21.	D. M. Gilmore & Co., plumbing.....	715	1.44
Dec. 6.	Moffett, Bushnell & Co., stationery.....	729	6.55
Dec. 12.	Wade Hibbard, postage.....	730	6.65
Dec. 5.	Minneapolis Office and School Furniture Co., furniture.....	731	55.00
Nov. 30.	R. J. Rickey, framing 12 maps.....	732	16.80
Dec. 14.	Stoddard Hardware Co., tools and supplies.....	733	17.25
Dec. 11.	W. S. Nott Co., supplies.....	734	6.96
Jan. 1.	Great Western Printing Co., printing.....	747	33.50
Jan. 28.	D. W. Sprague, freight, gas, postage, labor and miscel- laneous	790	26.43
Jan. 31.	Pay roll for January.....	843	1,839.00
Jan. 31.	D. W. Sprague, petty bills.....	844	10.21
Jan. 24.	John A. Schlener & Co., stationery.....	854	1.65
Dec. 31.	W. K. Morison & Co., supplies.....	857	.20
Jan. 31.	Great Western Printing Co., printing.....	867	114.65
Jan. 10.	Stoddard Hardware Co., supplies.....	868	9.51
Jan. 29.	H. E. Smith, postage and supplies.....	869	5.88
Jan. 14.	Irene Fowler, work in Professor Hibbard's office.....	870	6.94

1896.

Oct. 25.	Carl Bamberg, apparatus.....	871	11.25
Feb. 25.	D. W. Sprague, gas and miscellaneous.....	935	5.16
Feb. 29.	Pay roll for February.....	979	1,820.00
Feb. 29.	D. W. Sprague, petty bills.....	980	14.60
Feb. 24.	Leslie & McAfee, supplies.....	991	.80
Feb. 20.	Goodnow & Lawther, fuel.....	992	5.35
Feb. 15.	Moffett, Bushnell & Co., stationery.....	1002	13.35
Jan. 25.	Revere Rubber Co., supplies.....	1003	7.83
Feb. 1.	Electrical Engineering Co., supplies.....	1004	12.79
Feb. 29.	Geo. D. Shepardson, freight, postage and supplies.....	1006	8.04
Feb. 28.	Stoddard Hardware Co., tools and supplies.....	1007	18.20
Jan. 3.	Fairbanks, Morse Co., one portable scale.....	1008	46.75
Mar. 28.	D. W. Sprague, freight and express, gas, postage and mis- cellaneous	1046	41.50

1896.		No. Voucher.	Amount.
Mar. 31.	Pay roll for March.....	1075	1,800.00
Mar. 31.	D. W. Sprague, petty bills.....	1077	20.60
Mar. 27.	Northwestern Fuel Co., fuel.....	1078	13.30
Mar. 25.	Leslie & McAfee, stationery.....	1080	2.55
Mar. 28.	R. B. Thompson, furniture and supplies.....	1083	2.00
Mar. 30.	Electrical Engineering Co., supplies.....	1096	7.28
Mar. 10.	W. S. Nott Co., machinery.....	1098	11.53
Mar. 21.	C. D. Edwards, machinery.....	1099	8.00
Mar. 27.	University Book Store, books and stationery.....	1100	7.75
Mar. 10.	Northwestern Star Oil Co., supplies.....	1101	6.56
Mar. 4.	C. H. Kendall, repairs.....	1102	7.00
Feb. 29.	W. K. Morison & Co., supplies.....	1113	1.49
April 27.	D. W. Sprague, freight and express, gas, postage and miscellaneous	1153	23.00
April 30.	Pay roll for April.....	1189	1,858.33
April 30.	D. W. Sprague, petty bills.....	1190	19.66
April 25.	Stoddard Hardware Co., tools and supplies.....	1219	5.88
April 13.	The Ashcroft Manufacturing Co., machinery.....	1220	27.10
April 30.	Crescent Steel Works, supplies.....	1221	39.05
May 1.	Geo. D. Shepardson, supplies.....	1223	10.26
April 22.	Geo. A. Williams & Sons, apparatus.....	1224	8.80
May 22.	D. W. Sprague, freight and express, gas, postage and miscellaneous	1270	33.80
May 31.	Pay roll for May.....	1321	1,868.00
May 31.	D. W. Sprague, petty bills.....	1322	10.43
May 1.	University Press, stationery and printing.....	1324	7.77
May 8.	L. Wolff Manufacturing Co., repairs.....	1325	14.10
May 23.	Northwestern Fuel Co., fuel.....	1338	6.65
May 6.	Electrical Engineering Co., apparatus.....	1350	18.54
May 11.	Engineers' Year Book, one-page advertisement.....	1355	15.00
April 30.	Minneapolis General Electric Co., apparatus.....	1356	21.06
May 29.	Geo. D. Shepardson, supplies.....	1357	9.32
May 27.	Stoddard Hardware Co., supplies.....	1359	6.65
June 30.	D. W. Sprague, freight, express, gas, postage and miscellaneous	1413	12.44
June 30.	D. W. Sprague, petty bills.....	1467	9.35
July 1.	University Press, stationery and printing.....	1471	20.50
June 8.	W. S. Nott Co., tools and supplies.....	1484	4.50
June 29.	Great Western Printing Co., stationery and printing.....	1486	48.88
June 30.	W. K. Morison & Co., tools and supplies.....	1490	1.34
May 4.	W. K. Hoag, postage and supplies.....	1502	5.10
June 17.	Theo. Lagaard, supplies.....	1503	5.00
April 30.	Amelia I. Burgess, supplies.....	1504	5.04
June 30.	D. W. Sprague, freight and express, gas, postage and miscellaneous	1550	19.58
Total			\$18,984.71

Geological and Natural History Survey.

CURRENT EXPENSE.

1895		No. Voucher.	Amount.
April 6.	V. S. Brothers, supplies.....	85	\$12.00
Jan. 29.	F. H. Burglehaus, supplies.....	88	15.26
Mar. 20.	Cambridge Bot. Supply Co., supplies.....	89	5.70
Aug. 9.	Conway MacMillan, equipment.....	94	535.00
June 26.	Kennedy Bros., equipment.....	118	18.00
June 28.	Kennedy Bros., equipment.....	119	49.25
July 27.	U. S. Grant, salary, postage and supplies.....	120	42.30
Aug. 1.	Ulysses O. Cox, transportation and supplies.....	127	79.42
Aug. 27.	D. W. Sprague, miscellaneous.....	129	2.51
Aug. 31.	Pay roll for August.....	131	325.00
Aug. 31.	D. W. Sprague, petty bills.....	132	3.00
July 1.	Josephine A. Clark, 2,796 index cards.....	149	41.94
Aug. 30.	W. R. Hoag, freight, transportation and supplies.....	156	108.42
Aug. 30.	W. R. Hoag, salaries of officers.....	157	190.00
Aug. 29.	U. S. Grant, salaries employes, freight, postage and supplies	159	46.41
1894.			
Dec. 20.	Wm. Howling, 1,000 birds and mammals, mounted.....	201	1,500.00

1895		No. Voucher.	Amount.
Sept. 30.	Pay roll for September.....	232	510.00
Sept. 30.	Tribune Job Printing eCo., printing.....	237	3.25
Sept. 21.	Morgan Envelope Co., stationery.....	252	8.40
Sept. 21.	Richards & Co., apparatus.....	257	15.50
Sept. 20.	Henry F. Nachtrieb, salaries of employes.....	264	55.00
Sept. 28.	U. S. Grant, salaries employes, freight and transportation and miscellaneous	275	48.34
Aug. 8.	Leslie & McAfee, supplies.....	323	6.00
Sept. 16.	B. Fink, supplies.....	324	8.50
Mar. 29.	J. B. Ellis, Century 33d of North Am. Fungi.....	325	7.18
Sept. 21.	Houghton, Mifflin & Co., one Silva, vol. 8.....	328	25.00
Oct. 24.	D. W. Sprague, freight, transportation and miscellaneous...	338	50.53
Oct. 31.	Pay roll for October.....	381	510.00
Oct. 30.	Tribune Job Printing Co., printing.....	398	1.75
Oct. 10.	Coffin's Box Co., boxes for plants.....	410	4.20
Nov. 1.	W. R. Hoag, supplies.....	426	10.82
Aug. 30.	J. M. Tate, equipment.....	427	7.20
Oct. 24.	A. Kuhlo, apparatus.....	428	10.00
Nov. 1.	Noah Johnson, services on topographical survey.....	429	7.50
Oct. 17.	Columbia College, books for library.....	430	6.00
Nov. 1.	L. C. Lawrence, salaries of employes.....	431	7.50
Oct. 1.	A. S. Alve Co., supplies.....	432	5.85
Oct. 29.	Smithsonian Institute, freight.....	433	42.25
Oct. 29.	U. S. Grant, postage, labor and miscellaneous.....	434	24.65
Nov. 26.	D. W. Sprague, freight, postage, transportation and miscel- laneous	508	44.30
Nov. 30.	Pay roll for November.....	575	510.00
Nov. 2.	Library Bureau, supplies.....	610	9.36
Nov. 19.	Henry F. Nachtrieb, freight, postage and miscellaneous.....	611	106.67
May 24.	W. N. Luksdorf, supplies.....	612	9.52
Nov. 23.	U. S. Grant, salary of employes, freight, postage and mis- cellaneous	613	32.91
Nov. 26.	Leslie & McAfee, supplies.....	622	2.90
Nov. 2.	Minneapolis Paper Box Co., equipment.....	625	6.00
Dec. 26.	D. W. Sprague, freight and transportation and miscellaneous	668	49.94
Dec. 31.	Pay roll for December.....	709	500.00
Dec. 31.	D. W. Sprague, petty bills.....	710	2.37
Dec. 21.	Tribune Job Printing Co., printing.....	712	3.50
Dec. 1.	C. G. Pringle, seeds and plants.....	723	42.00
May 30.	Rev. A. C. Claghorn, seeds and plants.....	725	40.80
Dec. 31.	U. S. Grant, salaries of employes, postage and miscellaneous.	726	30.35
Mar. 30.	Geo. V. Nash, seeds and plants.....	727	48.00
Dec. 31.	C. F. Sidener, analysis of feldspar.....	736	12.00
Jan. 28.	D. W. Sprague, gas, freight, labor and miscellaneous.....	790	37.18
Jan. 31.	Pay roll for January.....	843	515.00
Jan. 31.	D. W. Sprague, petty bills	844	2.74
Jan. 27.	W. R. Hoag, salaries of officers.....	872	58.40
Jan. 27.	Noah Johnson, salaries of employes.....	873	25.80
Jan. 31.	U. S. Grant, freight, postage and salary of employes.....	874	25.76
Oct. 10.	R. Friedlander & Son, books for library.....	875	37.11
Dec. 31.	University Book Store, books for library.....	876	26.19
Jan. 9.	Smithsonian Institute, freight on exchanges.....	877	29.70
Jan. 20.	Lyman-Eliel Drug Co., supplies.....	879	1.88
Feb. 29.	Pay roll for February.....	979	515.00
Feb. 29.	D. W. Sprague, petty bills.....	980	3.10
Feb. 24.	Leslie & McAfee, supplies.....	991	8.00
Mar. 28.	D. W. Sprague, gas, freight, labor and miscellaneous.....	1046	39.39
Feb. 29.	U. S. Grant, postage, express, labor and miscellaneous.....	1046½	90.00
Mar. 31.	Pay roll for March.....	1076	551.00
Mar. 31.	D. W. Spraguē, petty bills.....	1077	12.80
Mar. 25.	Leslie & McAfee, stationery.....	1080	5.95
1896.			
April 1.	University Press, printing.....	1086	2.00
Mar. 1.	Tribune Job Printing Co., printing.....	1091	1.10
Mar. 31.	Ulysses Grant, clerk hire.....	1104	12.70
Feb. 11.	Oswald Weigel, books for library.....	1105	18.12
Jan. 6.	Josephine A. Clark, stationery.....	1106	21.59
Mar. 13.	Houghton, Mifflin & Co., library books.....	1107	25.00
Feb. 1.	J. B. Ellis, seeds and plants.....	1108	7.17
April 27.	D. W. Sprague, gas, freight and express, postage, labor and miscellaneous	1153	36.23
April 30.	Pay roll for April.....	1189	500.00
April 30.	U. S. Grant, salary employe, postage, supplies.....	1225	27.65
May 22.	D. W. Sprague, freight and express, postage, labor and miscellaneous	1270	77.16
May 31.	Pay roll for May.....	1321	512.00
May 26.	N. H. Winchell, postage and contingent.....	1354	50.91

1896.		No. Voucher.	Amount.
May 19.	Gustav E. Stechert, books for library.....	1375	36.56
June 30.	D. W. Sprague, gas, freight and express, postage, labor and miscellaneous	1413	47.24
June 26.	Leslie & McAfee, stationery.....	1475	2.25
Feb. 11.	Oswald Weigel, books for library.....	1505	32.50
Mar. 17.	A. H. Curtiss, seeds and plants.....	1506	21.00
May 28.	McClellan Paper Co., supplies.....	1507	41.90
July 30.	D. W. Sprague, freight and express, gas, postage, labor and miscellaneous	1550	.31
Total			<u>\$9,224.64</u>

COLLEGE OF LAW.

CURRENT EXPENSE.

1895		No. Voucher.	Amount.
Aug. 31.	Pay roll for August.....	131	\$20.00
Sept. 30.	Pay roll for September.....	232	747.55
Sept. 30.	D. W. Sprague, petty bills.....	233	6.10
Sept. 30.	Tribune Job Printing Co., printing.....	237	7.00
Sept. 28.	Minneapolis Office and School Furniture Co., furniture.....	249	10.00
Sept. 21.	Morgan Envelope Co., stationery.....	252	5.02
Oct. 4.	Hall, Black & Co., printing.....	329	6.50
Oct. 1.	Wm. Donaldson & Co., furniture.....	330	24.25
Sept. 30.	The Penny Press, printing.....	331	6.00
Sept. 30.	Pioneer Press Co., printing.....	332	6.00
Sept. 30.	Minneapolis Tribune Co., printing.....	333	7.50
Sept. 30.	Minneapolis Times, printing.....	334	5.75
Sept. 30.	Journal Printing Co., printing.....	335	6.90
Oct. 1.	Daily Globe, printing.....	336	6.00
Oct. 24.	D. W. Sprague, gas, postage, freight and miscellaneous.....	338	14.23
Oct. 31.	Pay roll for October.....	381	1,020.00
Oct. 31.	Great Western Printing Co., printing.....	394	2.25
Oct. 23.	Minneapolis Office and School Furniture Co., furniture.....	413	6.00
Sept. 4.	Nott & Plant Rubber Co., general fittings.....	435	6.00
Nov. 26.	D. W. Sprague, gas bill for October.....	508	24.70
Nov. 30.	Pay roll for November.....	575	1,010.00
Nov. 30.	D. W. Sprague, petty bills.....	576	3.00
Nov. 20.	University Press, printing.....	609	6.50
Dec. 26.	D. W. Sprague, gas bill.....	668	31.85
Dec. 31.	Pay roll for December.....	709	750.00
Dec. 31.	D. W. Sprague, petty bills.....	710	3.75
Jan. 28.	D. W. Sprague, gas bill.....	790	22.62
Jan. 31.	Pay roll for January.....	843	1,070.00
Jan. 31.	Great Western Printing Co., printing.....	867	5.60
Feb. 25.	D. W. Sprague, freight, gas and miscellaneous.....	935	5.00
Feb. 29.	Pay roll for February.....	979	1,110.00
Feb. 29.	D. W. Sprague, petty bills.....	980	3.60
Jan. 2.	Edward Thompson Co., books for library.....	1000	12.00
Dec. 2.	Boston Book Co., books for library.....	1010	8.00
Jan. 15.	T. & J. W. Johnson & Co., books for library.....	1011	11.70
Feb. 28.	H. L. Swain & Co., miscellaneous.....	1012	4.30
Mar. 28.	D. W. Sprague, freight, gas and miscellaneous.....	1046	21.32
1896.			
Mar. 31.	Pay roll for March.....	1076	1,355.00
Mar. 31.	D. W. Sprague, petty bills.....	1077	3.61
April 1.	University Press, printing.....	1086	1.95
April 27.	D. W. Sprague, gas and miscellaneous.....	1153	28.14
April 30.	Pay roll for April.....	1189	1,420.00
April 30.	D. W. Sprague, petty bills.....	1190	1.15
May 1.	Glessner & Washburn, furniture.....	1198	5.00
May 22.	D. W. Sprague, gas and miscellaneous.....	1270	29.26
May 31.	Pay roll for May.....	1321	1,475.00
June 26.	Leslie & McAfee, stationery.....	1475	2.00
June 15.	H. L. Collins & Co., library books.....	1511	1.80
July 30.	D. W. Sprague, gas bill.....	1550	2.73
Total			<u>\$10,342.63</u>

COLLEGE OF MEDICINE.

CURRENT EXPENSE.

1895		No. Voucher.	Amount.
July 31.	D. W. Sprague, petty bills.....	63	\$2.24
July 17.	Tribune Job Printing Co., printing.....	80	2.25
July 31.	Wm. W. Brown, printing.....	82	4.00
June 21.	Boyd Transfer and Fuel Co., freight.....	91	18.66
July 9.	Geo. A. Hendricks, freight and supplies.....	92	35.79
July 9.	Geo. A. Hendricks, equipment.....	122	85.00
June 11.	Geo. A. Hendricks, freight and duties.....	123	16.81
July 16.	Ernest Leitz, apparatus.....	126	74.10
Dec. 3.	Goodnow & Weightman, tools.....	125	5.10
Aug. 27.	D. W. Sprague, miscellaneous.....	129	31.39
Aug. 31.	Pay roll for August.....	131	30.00
Aug. 31.	D. W. Sprague, petty bills.....	132	2.00
July 31.	Association of American Medical Colleges, dues for 1894-5..	160	10.00
July 31.	A. C. Thorpe, tools and supplies.....	161	21.25
Aug. 1.	P. H. Millard, postage.....	162	21.10
Sept. 1.	Northwestern Telephone Exchange, service for September..	163	6.00
Aug. 3.	Noyes Bros. & Cutler, supplies.....	164	28.42
Sept. 30.	D. W. Sprague, gas, labor and miscellaneous.....	200	12.33
Sept. 30.	Pay roll for September.....	232	2,625.80
Sept. 30.	Tribune Job Printing Co., printing.....	237	23.75
Sept. 30.	John A. Schlener & Co., stationery.....	248	5.30
Sept. 21.	Morgan Envelope Co., stationery.....	252	14.82
Aug. 15.	Noyes Bros. & Cutler, supplies.....	277	6.30
Sept. 27.	Moffett, Bushnell & Co., stationery.....	278	7.40
Sept. 24.	James Bladon & Co., plumbing.....	279	14.00
Sept. 27.	A. P. Williamson, postage.....	281	6.00
Sept. 13.	J. E. Moore, M. D., furniture and apparatus.....	282	54.04
Sept. 23.	W. T. Keener Co., books for library.....	283	12.00
Aug. 31.	Journal of the Medical Association, advertisement.....	284	40.00
Sept. 13.	Lyman-Eliel Drug Co., supplies.....	285	53.84
Oct. 1.	Northwestern Lancet, advertisement.....	286	60.00
Oct. 1.	Eimer & Amend, supplies.....	337	10.00
Oct. 24.	D. W. Sprague, gas and miscellaneous.....	383	6.73
Oct. 31.	Pay roll for October.....	381	2,665.80
Oct. 31.	D. W. Sprague, petty bills.....	382	21.60
Oct. 14.	Leslie & McAfee, supplies.....	383	1.30
Sept. 30.	W. K. Morison & Co., supplies.....	384	6.69
Oct. 31.	Great Western Printing Co., printing.....	394	66.50
Oct. 31.	University Press, printing.....	395	17.50
Oct. 23.	M. F. Patterson, supplies.....	436	149.74
Sept. 24.	Morgan, Hastings & Co., supplies.....	437	25.00
Nov. 1.	John W. Thomas & Co., supplies.....	438	11.21
Oct. 22.	C. M. Bailey, M. D., supplies.....	439	71.00
Sept. 30.	W. K. Morison & Co., supplies.....	440	54.53
Oct. 12.	Enterprise Machine Co., tools.....	441	26.60
Sept. 19.	Noyes Bros. & Cutler, supplies.....	442	47.85
Oct. 30.	Thos. G. Lee, supplies.....	443	18.38
Oct. 25.	John Schlener & Co., stationery.....	444	5.90
Oct. 31.	Journal of Orificial Surgery, advertisement.....	445	15.00
Sept. 17.	Eimer & Amend, supplies.....	447	403.85
Oct. 1.	Minneapolis Pharmacy Co., advertisement.....	448	35.00
Oct. 23.	M. F. Patterson, furniture.....	449	512.41
Nov. 26.	D. W. Sprague, gas, express, postage, miscellaneous.....	508	68.86
Nov. 30.	Pay roll for November.....	575	2,725.80
Nov. 30.	D. W. Sprague, petty bills.....	576	18.16
Nov. 8.	Minneapolis Gas Light Co., gas fixtures.....	583	64.56
Nov. 22.	C. A. Smith & Co., supplies.....	584	6.58
Nov. 13.	Glessner & Washburn, furniture.....	587	.75
Nov. 30.	Great Western Printing Co., printing.....	590	7.50
Nov. 20.	Tribune Job Co., printing.....	591	6.00
Nov. 25.	Brown & Haywood, repairs.....	592	5.27
Nov. 30.	John A. Schlener & Co., stationery.....	593	.50
Nov. 15.	Richards & Co., supplies.....	594	1.13
Nov. 21.	Stoddard Hardware Co., supplies.....	605	1.60
Dec. 1.	University Press, printing.....	607	7.00
Oct. 31.	Jas. Bladon & Co., general fittings.....	614	19.41
Nov. 30.	M. F. Patterson, supplies.....	615	43.42
Oct. 15.	Northwestern Machine and Cycle Works, apparatus.....	116	9.75
Nov. 30.	Dr. C. M. Bailey, supplies.....	617	10.00
Nov. 27.	Johnson Cycle and Machine Co., repairs.....	618	20.35
Nov. 23.	Noyes Bros. & Cutler, supplies.....	620	45.64

1895		No. Voucher.	Amount.
Oct. 15.	Chas. T. Leonard, supplies.....	621	14.30
Nov. 26.	Leslie & McAfee, supplies.....	622	9.64
Nov. 2.	Lyman-Eliel Drug Co., supplies.....	623	9.92
Nov. 22.	Noyes Bros. & Cutler, supplies.....	624	20.63
Nov. 2.	Minneapolis Paper Box Co., paper boxes.....	625	19.51
Oct. 30.	Eimer & Amend, apparatus and instruments.....	626	158.53
Dec. 26.	D. W. Sprague, gas, express, postage and miscellaneous....	668	97.83
Dec. 31.	Pay roll for December.....	709	2,755.80
Dec. 31.	D. W. Sprague, petty bills.....	710	21.81
Dec. 21.	Tribune Job Printing Co., printing.....	712	1.00
Dec. 31.	University Press, printing.....	713	3.75
Nov. 30.	W. K. Morison & Co., supplies.....	720	11.28
Dec. 19.	Noyes Bros. & Cutler, supplies.....	735	13.91
Dec. 10.	S. C. Robbins, apparatus.....	737	12.00
Dec. 1.	Chas. H. Cirkler, supplies.....	738	7.15
Dec. 31.	Northwestern Telephone Exchange, service for November, December and January.....	739	18.00
Nov. 29.	R. O. Beard, supplies.....	740	7.91
Nov. 7.	Lyman-Eliel Drug Co., supplies.....	741	7.17
Nov. 23.	Beard Art Co., printing and supplies.....	742	49.02
Oct. 28.	Glessner & Washburn, furniture.....	743	7.25
Dec. 27.	Smith & Wyman, furniture.....	744	85.00
Nov. 12.	Crolius, Tucker & Allen Co., supplies.....	745	16.48
Dec. 21.	M. F. Patterson, supplies.....	746	50.23
Jan. 28.	D. W. Sprague, gas, express, postage, labor and miscel- laneous	790	86.02
Jan. 31.	Pay roll for January.....	843	2,735.80
Jan. 31.	D. W. Sprague, petty bills.....	844	8.03
Jan. 6.	D. W. Sprague, labor.....	852	16.50
Jan. 18.	Kelly & Lamb, repairs.....	856	.56
Dec. 31.	W. K. Morison & Co., supplies.....	857	3.20
Dec. 5.	Noyes Bros. & Cutler, apparatus.....	861	1.13
Feb. 1.	Northwestern Telephone Exchange, service for February....	878	6.00
Jan. 20.	Lyman-Eliel Drug Co., supplies.....	879	17.61
Jan. 1.	Boston Medical and Surgical Journal, subscription.....	880	5.00
Jan. 30.	Great Western Printing Co., printing.....	881	20.50
Jan. 27.	M. F. Patterson, supplies.....	882	86.77
Jan. 29.	M. F. Patterson, supplies.....	883	261.83
Jan. 2.	Pike & Cook, repairs.....	884	12.60
Feb. 25.	D. W. Sprague, gas, express, postage and miscellaneous....	935	18.38
Feb. 29.	Pay roll for February.....	979	2,735.80
Feb. 29.	D. W. Sprague, petty bills.....	980	29.83
Feb. 20.	John A. Schlener & Co., stationery.....	986	2.80
Dec. 16.	Corning & Co., supplies.....	998	56.05
Feb. 26.	M. F. Patterson, dental supplies.....	1005	308.51
Feb. 28.	Stoddard Hardware Co., supplies.....	1007	2.35
Feb. 28.	H. L. Swain & Co., equipment.....	1012	3.15
Aug. 21.	Richard Kny & Co., apparatus.....	1013	31.15
Jan. 24.	H. Kelly & Co., plumbing.....	1014	17.50
Feb. 25.	Lyman-Eliel Drug Co., supplies.....	1015	12.34
Feb. 6.	Smith & Wyman, furniture.....	1016	12.00
Feb. 14.	R. O. Beard, supplies.....	1017	6.20
Feb. 29.	Carl Huhn, salaries of employes.....	1018	30.00
Nov. 2.	Henry Condit, salaries of employes.....	1019	30.00
Feb. 24.	Animal Supply Co., supplies.....	1020	12.00
Feb. 27.	Glessner & Washburn, furniture.....	1021	31.00
Feb. 27.	Thos. G. Lee, postage, furniture and supplies.....	1022	40.40
Mar. 1.	Northwestern Telephone Exchange, service for March.....	1023	6.00
Mar. 28.	D. W. Sprague, gas, postage, labor and miscellaneous.....	1046	123.67
Mar. 31.	Pay roll for March.....	1076	2,745.80
Mar. 31.	D. W. Sprague, petty bills.....	1077	20.01
Mar. 28.	R. B. Thompson, furniture and supplies.....	1083	2.39
Mar. 28.	Minneapolis Wire Works, general fittings.....	1087	20.00
June 20.	Minneapolis Dental Manufacturing Co., supplies.....	1100	39.69
Mar. 24.	D. M. Gilmore & Co., general fittings.....	1110	15.17
Mar. 3.	Noyes Bros. & Cutler, supplies.....	1111	17.60
Mar. 2.	Beard Art Co., supplies.....	1112	7.25
Feb. 29.	W. K. Morison & Co., supplies.....	1113	44.69
Mar. 13.	C. A. Smith Lumber Co., furniture and fixtures.....	1114	10.46
Feb. 22.	Thompson & Lees, furniture and fixtures.....	1115	26.00
Feb. 27.	R. Alexander, general fittings	1116	50.20
Mar. 23.	L. Wolff Manufacturing Co., plumbing.....	1117	3.47
Mar. 28.	F. F. Westbrook, supplies.....	1118	9.73
Mar. 27.	M. F. Patterson, supplies.....	1119	197.76
April 1.	Northwestern Telephone Exchange, service for April.....	1120	6.00
Mar. 11.	Crolius, Tucker & Allen Co., apparatus.....	1121	10.00
April 27.	D. W. Sprague, gas, postage, labor and miscellaneous.....	1153	90.98
Sept. 25.	Charles Truax, Greene & Co., supplies.....	1154	12.00
April 30.	Pay roll for April.....	1189	2,715.80

1895.		No. Voucher.	Amount.
April 30.	D. W. Sprague, petty bills.....	1190	40.48
April 24.	D. W. Gilmore & Co., repairs.....	1196	2.89
April 25.	Tribune Job Printing Co., stationery and printing.....	1197	7.50
April 16.	Weeber & Kletzin, feed.....	1207	4.08
May 1.	Northwestern Telephone Exchange, service for May.....	1222	6.00
April 27.	R. B. Thompson, furniture and fixtures.....	1228	11.28
April 7.	Northern Sheet Metal Works, tools and implements.....	1227	9.65
Mar. 25.	Animal Supply Co., supplies.....	1228	9.00
Mar. 31.	Joseph H. Smith, fixtures.....	1229	14.90
Mar. 2.	Trainor Bros., fixtures.....	1230	25.00
Mar. 31.	Beard Art Co., supplies.....	1231	5.50
Mar. 2.	John Shaw & Co., supplies.....	1232	36.10
Mar. 28.	Benneson & Snyder, supplies.....	1233	9.90
April 6.	W. D. Green & Co., supplies.....	1234	50.00
April 29.	M. F. Patterson, supplies.....	1235	45.36
May 22.	D. W. Sprague, gas, postage, labor and miscellaneous.....	1270	185.95
May 31.	Pay roll for May.....	1321	2,745.80
May 31.	D. W. Sprague, petty bills.....	1322	11.94
May 25.	Weeber & Kletzin, feed.....	1341	2.38
May 6.	Electric Engineering Co., apparatus.....	1350	21.75
May 15.	Eugene Dietzgen Co., supplies.....	1358	26.88
May 27.	Stoddard Hardware Co., supplies.....	1359	8.88
May 28.	Thos. G. Lee, supplies.....	1360	15.62
May 26.	Noyes Bros. & Cutler, apparatus and supplies.....	1361	25.94
May 25.	Bausch & Lomb Optical Co., supplies.....	1362	14.44
May 1.	Carl Huhn, wages of employe.....	1363	30.00
May 7.	W. H. Condit, wages of employe.....	1364	30.00
May 4.	American Spirits Manufacturing Co., supplies.....	1365	19.54
April 21.	Lyman-Elie! Drug Co., supplies.....	1366	6.36
May 26.	Chas. E. Rounds, work on catalogue.....	1367	6.50
April 20.	Perry H. Millard, postage.....	1368	10.00
May 2.	J. B. Lippincott & Co., books for library.....	1369	9.00
May 25.	Richard Kuy & Co., apparatus.....	1370	15.00
April 22.	Nor. Sheet Metal Works, apparatus.....	1371	18.00
May 27.	M. F. Patterson, supplies.....	1372	104.64
May 29.	J. F. Wulling, supplies.....	1373	21.89
June 30.	D. W. Sprague, express.....	1413	1.00
June 30.	D. W. Sprague, petty bills.....	1467	10.74
July 1.	University Press, stationery and printing.....	1471	1.75
June 30.	Northwestern Telephone Exchange, service for June.....	1478	6.00
June 10.	1897 "Gopher," engraving Med. Science Lab.....	1485	4.50
June 29.	Great Western Printing Co., stationery and printing.....	1486	25.75
May 27.	Association American Medical Colleges, dues for 1896-7.....	1508	5.00
July 2.	Soren P. Rees, work in September, 1895.....	1509	28.00
June 9.	Noyes Bros. & Cutler, supplies.....	1510	2.15
June 15.	H. L. Collins & Co., books for library.....	1511	20.80
June 1.	M. R. Wilcox, 12 charts.....	1512	18.00
June 15.	R. B. Thompson, fixtures.....	1513	12.95
June 30.	Weeber & Kletzin, feed.....	1514	3.11
1895.			
Jan. 1.	S. W. Melendy, supplies.....	1515	33.27
June 30.	Joseph H. Smith, petty supplies.....	1516	6.65
June 15.	F. J. Wulling, postage, stationery and labor.....	1518	20.75
June 13.	Eugene Deitzgen Co., supplies.....	1549	10.11
July 30.	D. W. Sprague, freight and express, gas, postage and miscellaneous.....	1550	25.47
Total			<u>\$30,622.60</u>

COLLEGE OF AGRICULTURE.

CURRENT EXPENSE.

1895		No. Voucher.	Amount.
July 17.	Tribune Job Printing Co., printing.....	80	\$1.50
July 25.	J. A. Vye, secretary, supplies.....	95	6.56
July 23.	W. H. Gruenhagen, supplies.....	96	2.85
July 25.	Samuel B. Green, trees and labor.....	101	13.05
June 25.	Bausch & Lomb Optical Co., apparatus.....	107	5.76
Nov. 28.	Janney, Semple & Co., supplies.....	117	44.75
Aug. 31.	Pay roll for August.....	131	753.09
Aug. 26.	J. A. Vye, supplies.....	171	2.37

1895.		No. Voucher.	Amount.
Sept. 30.	Pay roll for September.....	232	1,153.55
Sept. 25.	J. A. Vye, supplies.....	288	8.27
Aug. 31.	W. H. Gruenhagen, repairs.....	291	4.55
Sept. 26.	H. W. Brewster, postage.....	294	16.20
Oct. 1.	Farm, Stock and Home, advertisement.....	295	31.80
Sept. 15.	Webb Publishing Co., advertisement.....	296	10.00
Aug. 31.	Bemis Bros. Bag Co., supplies.....	305	3.00
Aug. 21.	W. K. Morison & Co., repairs and equipment.....	310	8.43
Oct. 9.	Goodnow & Lawther, fuel.....	314	28.39
Sept. 16.	Geo. F. Johnson, manager, 2 cases toilet paper.....	317	13.00
Sept. 16.	Jerome Paper Co., 200 rolls toilet paper.....	318	16.00
Jan. 14.	Minneapolis Paper Co., one case No. 2 Hoyt's toilet paper...	319	11.75
Sept. 15.	P. V. Collins, manager, advertisement.....	320	10.00
Oct. 31.	Pay roll for October.....	381	1,694.48
Oct. 12.	Leslie & McAfee, printing.....	393	13.20
Oct. 30.	Tribune Job Printing Co., printing.....	398	1.00
Oct. 29.	J. A. Vye, secretary, freight on drill and forge.....	450	17.16
Oct. 29.	J. A. Vye, secretary, freight on car seats.....	451	39.00
Sept. 26.	Trainor Bros., foundation for pump.....	457	28.60
Oct. 3.	Goodnow & Lawther, fuel.....	458	492.84
Aug. 26.	C. L. Moffatt, horseshoeing and repairs.....	461	4.50
Oct. 25.	Morris & Wilson, books for library.....	463	67.70
Oct. 5.	Thomas Kane & Co., furniture.....	465	411.00
Sept. 21.	Morgan Envelope Co., stationery.....	468	7.37
Sept. 30.	Pioneer Fuel Co., fuel.....	471	18.00
Sept. 16.	W. K. Morison & Co., tools and machinery.....	472	5.00
Aug. 30.	Crane Ordway Co., repairs.....	473	13.71
Jan. 2.	Minneapolis Paper Co., supplies.....	475	5.70
Oct. 31.	S. E. Olson & Co., supplies and equipment.....	481	158.36
Sept. 30.	Western Supply Co., repairs.....	485	105.24
Sept. 4.	Brooks Bros. repairs.....	486	14.37
Oct. 12.	A. G. Kinslow, repairs.....	487	14.00
Oct. 7.	John A. Schlener & Co., supplies.....	489	18.60
Oct. 7.	Nichols & Dean, supplies.....	490	60.59
Oct. 22.	Nathan Ford Music Co., rent of piano.....	491	6.00
Oct. 3.	Northwestern Electric Co., supplies.....	493	6.64
Oct. 29.	H. W. Brewster, tools and machinery.....	496	60.35
Oct. 30.	A. G. Olson, repairs.....	497	10.60
Oct. 30.	W. H. Gruenhagen, miscellaneous hardware.....	499	21.40
Oct. 29.	J. A. Vye, secretary, express, labor, supplies.....	500	4.58
Aug. 22.	Northwestern Fuel Co., fuel.....	502	17.55
Oct. 30.	John Fee, repairs.....	503	26.20
Oct. 30.	P. Callahan, labor.....	504	55.20
Oct. 30.	J. Ryan, labor.....	506	39.55
Oct. 30.	Charles Enger, repairs.....	507	30.00
Nov. 26.	D. W. Sprague, express and miscellaneous.....	508	6.00
Nov. 30.	Pay roll for November.....	575	1,781.24
Nov. 30.	J. A. Vye, supplies.....	627	5.59
Nov. 27.	J. A. Vye, hay.....	628	.63
Nov. 13.	Adam Lindig, feed.....	630	.55
Oct. 25.	Wagner & Nelson, repairs.....	633	3.70
Nov. 4.	Crescent Steel Works, supplies.....	635	8.98
Nov. 16.	Farm, Stock and Home, books for library.....	645	7.20
Nov. 1.	Trainor Bros., repairs.....	637	8.80
Nov. 25.	Kelly & Lamb, covering steam pipes.....	646	109.53
Oct. 23.	Northwestern Compo Board Co., repairs.....	648	12.96
Nov. 8.	C. C. Curtiss, 12 desks.....	650	90.00
Nov. 18.	R. B. Thompson, supplies.....	651	30.45
Nov. 22.	W. H. Gruenhagen, repairs and supplies.....	652	8.20
Nov. 19.	Noyes Bros. & Cutler, supplies.....	654	1.16
Nov. 25.	John Fee, repairs.....	655	10.40
Nov. 25.	H. W. Brewster, freight, postage and supplies.....	662	15.41
Nov. 20.	Goodnow & Lawther, fuel.....	663	207.12
Dec. 31.	Pay roll for December.....	709	1,684.59
Dec. 21.	Tribune Job Printing Co., printing.....	712	4.50
Dec. 31.	J. A. Vye, freight, express, labor and miscellaneous.....	748	12.72
Dec. 31.	J. A. Vye, feed.....	749	4.68
Dec. 1.	S. B. Loyer & Sons, supplies.....	755	3.00
Dec. 28.	Goodnow & Lawther, fuel.....	756	337.61
Dec. 28.	Minnesota Wood Supply Co., fuel.....	757	32.40
Dec. 9.	W. P. Hemenway, furniture.....	758	18.00
Dec. 23.	P. Callahan, labor.....	759	13.20
Dec. 23.	M. H. Reynolds, salary of employe and supplies.....	760	4.50
Dec. 12.	Nathan Ford Music Co., sheet music.....	761	18.60
Dec. 27.	Brooks Bros., repairs.....	768	5.64
Dec. 23.	Crane & Ordway Co., general fittings.....	769	6.49
Dec. 10.	Pioneer Fuel Co., fuel.....	773	13.55
Dec. 9.	Winston, Farrington & Co., supplies.....	775	1.00
Dec. 23.	John Fee, repairs.....	778	14.40
Dec. 23.	J. Ryan, labor.....	779	10.15

1895		No. Voucher.	Amount.
Nov. 25.	Robinson & Cary Co., 2 steam traps.....	781	15.00
Dec. 24.	W. H. Gruenhagen, miscellaneous hardware supplies.....	783	22.00
Nov. 12.	Glessner & Washburn, furniture.....	786	174.45
Dec. 12.	John A. Schlener & Co., stationery.....	787	1.80
Dec. 16.	P. Howard, repairs.....	788	3.50
Dec. 31.	Pay roll for January.....	843	1,761.67
Jan. 24.	John A. Schlener & Co., stationery.....	854	2.00
Jan. 31.	Great Western Printnig Co., printing.....	867	5.25
Jan. 29.	J. A. Vye, express and supplies.....	885	19.82
Jan. 11.	Williams & Sons Co., seeds and plants.....	889	3.36
Jan. 13.	Brooks Bros., repairs.....	896	1.18
Jan. 16.	H. C. Boyeson & Co., supplies.....	897	1.00
Jan. 25.	P. H. Hamstrom, repairs.....	898	1.20
Jan. 24.	W. H. Gruenhagen, miscellaneous.....	912	11.45
Jan. 25.	John Fee, labor and repairs.....	913	15.80
Jan. 28.	W. H. Brewster, freight, postage and repairs.....	922	17.25
Dec. 2.	Boutell Bros., furniture.....	923	10.00
Jan. 18.	St. Paul Printing Co., supplies.....	924	32.85
Dec. 31.	W. K. Morison & Co., repairs and supplies.....	925	13.04
1896.			
Jan. 14.	Goodnow & Lawther fuel.....	926	196.95
Jan. 23.	John A. Schlener & Co., supplies.....	927	9.65
Jan. 2.	W. J. Dyer & Bro., books for library.....	928	9.70
Jan. 8.	Northwestern Fuel Co., fuel.....	929	7.30
Jan. 2.	Farwell, Ozmun, Kirk & Co., tools.....	930	11.50
Jan. 24.	Pioneer Fuel Co., fuel.....	931	13.30
Dec. 16.	Nicols & Dean, tools and supplies.....	932	79.45
Jan. 14.	Association of American Agricultural Colleges, dues, 1895-6..	933	10.00
Feb. 29.	Pay roll for February.....	979	1,804.84
Feb. 21.	John A. Schlener & Co., stationery.....	987	8.50
Feb. 26.	J. A. Vye, books, freight and supplies.....	1024	7.57
Feb. 28.	J. A. Vye, miscellaneous.....	1025	20.00
Feb. 27.	Noyes Bros. & Cutler, supplies.....	1027	4.44
Feb. 28.	Adam Lindig, feed.....	1030	.59
Jan. 28.	Gustav E. Stechert, books for library.....	1031	68.63
Jan. 8.	American Book Co., books for library.....	1032	5.76
Jan. 31.	W. K. Morison & Co., repairs....	1033	1.90
Feb. 21.	P. J. Hamstrom, repairs.....	1035	5.75
Feb. 1.	Janney, Semple & Co., supplies.....	1037	7.60
Feb. 11.	Beard Art Co., furniture.....	1038	6.30
Feb. 28.	Goodnow & Lawther, fuel.....	1039	359.08
Feb. 21.	John Fee, labor and repairs.....	1040	11.40
Feb. 29.	H. W. Brewster, books for library and postage.....	1042	18.55
Feb. 19.	Chas. R. Aldrich, apparatus and instruments.....	1043	20.48
Feb. 28.	Kelly & Lamb, plumbing.....	1044	78.33
Jan. 18.	St. Paul Printing Co., stationery.....	1045	8.00
Mar. 28.	D. W. Sprague, ribbon for diplomas.....	1046	5.10
Mar. 31.	Pay roll for March.....	1076	1,775.00
April 1.	Great Western Printing Co., stationery.....	1081	50.00
Mar. 12.	Louis Dreka, supplies.....	1122	37.50
Mar. 26.	Rickard & Gruman, engrossing diplomas.....	1123	14.00
Mar. 30.	Danz's Orchestra, music agricultural school.....	1124	24.00
Feb. 21.	R. B. Thompson, supplies.....	1125	25.12
Mar. 19.	Goodnow & Lawther, fuel.....	1126	141.04
Feb. 26.	Union Iron Works, repairs.....	1127	6.40
Mar. 2.	Nathan Ford Music Co., miscellaneous.....	1128	6.00
Mar. 6.	Brown & Haywood Co., repairs	1129	6.58
Mar. 26.	Moffett, Thurston & Plank Co., printing.....	1130	20.00
Mar. 26.	H. W. Brewster, postage.....	1131	11.40
Mar. 28.	J. A. Vye, secretary, freight and supplies.....	1132	2.75
Mar. 13.	Adam Lindig, feed.....	1139	2.90
Mar. 25.	W. H. Gruenhagen, supplies.....	1144	13.10
Feb. 17.	Janney, Semple & Co., tools and supplies.....	1147	2.16
April 30.	Pay roll for April.....	1189	1,022.43
April 24.	J. A. Vye, salary of employe.....	1236	67.78
April 17.	Goodnow & Lawther, fuel.....	1237	17.00
April 24.	W. H. Gruenhagen, miscellaneous.....	1238	18.00
April 17.	Standard Oil Co., supplies.....	1241	7.50
Mar. 26.	Gustav E. Stechert, books for library.....	1242	11.85
April 20.	Bramblett & Beygeh, engraving.....	1243	6.50
Mar. 10.	Fred Kaempfer, supplies.....	1244	5.18
Mar. 10.	Pioneer Fuel Co., 2,000 pounds Cumberland coal.....	1254	6.45
May 31.	Pay roll for May.....	1321	1,118.81
May 27.	Tribune Job Printing Co., 300 jackets.....	1326	2.25
May 25.	J. A. Vye, tools, labor and supplies.....	1376	41.39
Feb. 19.	Goodnow & Lawther, fuel.....	1379	44.99
Mar. 26.	R. R. Howell & Co., tools and repairs.....	1381	9.75
April 2.	W. H. Gruenhagen, petty supplies.....	1384	.70
May 26.	H. W. Brewster, postage.....	1386	7.12

1896.		No. Voucher.	Amount.
April 30.	Robinson & Cary, repairs.....	1388	3.60
May 15.	Twin City Calcium Light Co., supplies.....	1390	13.05
June 27.	J. A. Vye, secretary, labor, repairs and supplies.....	1519	7.12
May 29.	R. R. Howell & Co., repairs.....	1520	37.65
May 7.	William Donaldson & Co., supplies.....	1522	7.48
June 27.	J. A. Vye, secretary, wages of employes.....	1523	277.00
June 26.	J. A. Vye, secretary, wages of employes.....	1524	84.46
May 29.	Crane & Ordway Co., petty supplies.....	1525	5.20
June 12.	Tribune Job Printing Co., stationery and printing.....	1527	6.00
June 1.	Minneapolis Dry Goods Co., supplies.....	1529	16.76
June 25.	The Eagle Printing Co., 4 receipt books.....	1532	7.00
June 1.	J. B. Price, supplies.....	1533	13.24
May 18.	W. H. Gruenhagen, contingent expenses.....	1538	5.70
April 18.	Brooks Bros., repairs.....	1543	1.20
April 3.	Boutell Bros., supplies.....	1545	14.60
Total			<u>\$20,025.60</u>
To this add—			
	Amount charged to dairy school.....	\$7,815.16	
	Amount charged to veterinary school.....	180.21	
Total			<u>7,995.37</u>
Total			<u>\$28,020.97</u>

Note.—See summary sheet at close of current expense.

Experiment Station—General Station.

CURRENT EXPENSE.

1895		No. Voucher.	Amount.
Aug. 1.	Northwestern Telephone Exchange, service for August.....	90	\$7.00
June 30.	E. H. S. Dartt, labor, freight, postage, printing, seeds, etc..	93	163.26
July 25.	J. A. Vye, secretary express, labor, miscellaneous.....	95	7.21
July 23.	W. H. Gruenhagen, supplies.....	96	3.80
July 24.	Minneapolis Engraving Co., printing.....	98	16.00
June 1.	S. B. Loye & Sons, tools and supplies.....	102	26.15
July 26.	Diamond Elevator Co., feed.....	103	9.38
July 30.	L. Wallace, stock.....	105	50.00
Aug. 30.	Pay roll for August.....	131	327.18
Sept. 1.	Northwestern Telephone Exchange, service for September..	163	7.00
Aug. 26.	Minneapolis Engraving Co., soil illustrations.....	174	6.25
April 2.	S. B. Loye & Co., harness.....	175	25.50
Aug. 24.	W. H. Gruenhagen, supplies.....	181	2.43
Aug. 12.	Northwestern Fuel Co., fuel.....	183	12.44
July 31.	W. K. Morison & Co., repairs.....	185	1.25
July 26.	Harrison & Smith, printing.....	186	10.00
Aug. 14.	The Denny-Stevens Tag Co., 5,000 tags.....	190	6.25
Aug. 27.	A. S. Williams, printing.....	192	9.67
July 26.	A. Barto, transportation and hotel bills.....	196	37.81
Aug. 26.	J. A. Vye, postage, express and supplies.....	171	55.79
Sept. 30.	Pay roll for September.....	232	297.87
Oct. 1.	Northwestern Telephone Exchange, service for October.....	287	7.00
Sept. 25.	J. A. Vye, freight, express, labor and supplies.....	288	68.74
Sept. 21.	W. M. Liggett, stock.....	293	200.00
Aug. 28.	Northwestern Fuel Co., fuel.....	302	2.92
July 22.	H. L. Collins & Co., stationery.....	306	26.40
Sept. 26.	Minneapolis Engraving Co., printing.....	308	11.55
Oct. 9.	Goodnow & Lawther, fuel.....	314	4.61
Oct. 31.	Pay roll for October.....	381	332.80
Oct. 31.	Northwestern Telephone Exchange, service for November....	416	7.00
Oct. 3.	Goodnow & Lawther, fuel.....	458	34.44
Aug. 26.	C. L. Moffatt, horseshoeing and repairs.....	461	13.15
Oct. 24.	Harrison & Smith, printing 15,000 Bulletins.....	462	422.83
Oct. 8.	Allen Bros., supplies.....	464	5.40
Oct. 4.	W. M. Hays, trip to Denver.....	466	50.00
Sept. 28.	J. I. Case Implement Co., implement repairs.....	467	8.10
Sept. 21.	Morgan Envelope Co., stationery.....	468	28.12
Aug. 13.	Northrup-Braslan-Goodwin Co., seeds and plants.....	469	1.08

1895.		No. Voucher.	Amount.
Sept. 30.	Pioneer Fuel Co., fuel.....	471	2.31
Aug. 30.	The Crane & Ordway Co., repairs.....	473	2.87
Oct. 26.	Brown, Treacy & Co., supplies.....	474	5.80
Jan. 2.	Minneapolis Paper Co., supplies.....	475	1.80
Sept. 6.	W. S. Nott & Co., equipment.....	477	13.00
Oct. 24.	Walter Babcock, repairs.....	480	189.00
Sept. 27.	Trainor Bros., repairs.....	482	55.00
Oct. 12.	A. G. Kinslow, repairs.....	487	10.00
Oct. 25.	Adam Lindig, feed.....	488	2.44
Oct. 24.	E. C. Lindig, feed.....	492	7.65
Oct. 26.	State Agricultural Society, rent fair grounds.....	495	75.00
Oct. 30.	A. G. Olson, repairs.....	497	24.40
Oct. 30.	W. H. Gruenhagen, miscellaneous.....	499	13.69
Oct. 29.	J. A. Vye, secretary transportation, postage and supplies...	500	34.55
Sept. 27.	Richards & Co., supplies.....	501	223.46
Aug. 22.	Northwestern Fuel Co., fuel.....	502	17.55
Oct. 30.	J. Ryan, labor.....	506	26.25
Nov. 30.	Pay roll for November.....	575	428.68
Nov. 30.	Northwestern Telephone Exchange, service for December....	619	7.00
Nov. 30.	J. A. Vye, postage, freight, labor and repairs.....	627	50.07
Nov. 27.	J. A. Vye, feed.....	628	2.21
Nov. 30.	J. A. Vye, freight on car hay.....	629	2.87
Nov. 13.	Adam Lindig, hay.....	630	1.93
Oct. 25.	Wagner & Nelson, repairs.....	633	72.40
Nov. 29.	James A. Powers, tools and machinery.....	639	10.00
Nov. 22.	W. H. Gruenhagen, repairs.....	652	.95
Nov. 25.	John Fee, repairs.....	655	11.20
Oct. 31.	W. K. Morison & Co., tools.....	660	7.50
Nov. 6.	John A. Schlener & Co., supplies.....	661	9.70
Nov. 20.	Goodnow & Lawther, fuel.....	663	87.53
Dec. 31.	Pay roll for December.....	709	344.91
Dec. 26.	Moffett, Thurston & Plank Printing Co., printing.....	718	6.50
Dec. 31.	Northwestern Telephone Exchange, service for January....	739	7.00
Dec. 31.	J. A. Vye, postage, express and miscellaneous.....	748	29.45
Dec. 31.	J. A. Vye, feed.....	749	16.39
Dec. 31.	J. A. Vye, feed.....	754	52.94
Dec. 28.	Goodnow & Lawther, fuel.....	756	84.58
Dec. 28.	Minnesota Wood Supply Co., fuel.....	757	6.97
Dec. 13.	Minneapolis Engraving Co., printing.....	766	7.60
Dec. 27.	Brooks Bros., repairs.....	768	10.17
Dec. 23.	Crane & Ordway Co., general fittings.....	769	5.01
Dec. 9.	Winston, Farrington & Co., supplies.....	775	4.80
Dec. 23.	John Fee, repairs.....	778	3.20
Dec. 23.	J. Ryan, labor.....	779	6.30
Dec. 24.	W. H. Gruenhagen, miscellaneous.....	783	13.00
Dec. 12.	John A. Schlener & Co., stationery.....	787	6.82
Dec. 16.	P. Howard, repairs.....	788	30.00
Jan. 31.	Pay roll for January.....	843	310.43
Feb. 1.	Northwestern Telephone Exchange, service for February...	878	7.00
Jan. 29.	J. A. Vye, postage, express and supplies.....	885	47.09
Jan. 29.	J. A. Vye, feed.....	886	95.65
Jan. 24.	C. L. Moffatt, horseshoeing and repairs.....	890	19.25
Dec. 31.	Harrison & Smith, printing.....	891	34.65
Dec. 28.	Minneapolis Paper Co., supplies.....	892	7.75
Jan. 13.	Brooks Bros., repairs.....	896	9.86
Jan. 16.	H. C. Boyeson & Co., supplies.....	897	14.60
Jan. 25.	P. J. Hamstrom, repairs.....	898	25.60
Jan. 14.	Association of American Experiment Stations, dues, 1895-6..	900	10.00
Jan. 25.	John Fee, labor and repairs.....	913	6.40
Jan. 18.	St. Paul Printing Co., supplies.....	924	2.80
Jan. 14.	Goodnow & Lawther, fuel.....	926	114.83
Jan. 23.	John A. Schlener & Co., stationery.....	927	2.25
Feb. 29.	Pay roll for February.....	979	311.48
Mar. 1.	Northwestern Telephone Exchange, service for March.....	1023	7.00
Feb. 26.	J. A. Vye, postage, labor and supplies.....	1024	41.77
Feb. 28.	J. A. Vye, miscellaneous.....	1025	20.00
Feb. 27.	Harrison & Smith, printing.....	1026	133.64
Feb. 5.	P. Howard, repairs.....	1028	6.00
Feb. 19.	Northwestern Fuel Co., fuel.....	1029	25.26
Feb. 28.	Adam Lindig, feed.....	1030	2.06
Feb. 27.	W. H. Gruenhagen, miscellaneous.....	1034	23.14
Feb. 21.	P. J. Hamstrom, repairs.....	1035	7.00
Feb. 28.	Goodnow & Lawther, fuel.....	1039	65.30
1896.			
Feb. 21.	John Fee, labor and repairs.....	1040	.60
Feb. 28.	C. L. Moffatt, horseshoeing.....	1041	.50
Mar. 31.	Pay roll for March.....	1076	305.30
Mar. 31.	D. W. Sprague, petty bills.....	1077	.32
April 1.	Northwestern Telephone Exchange, service for April.....	1120	7.00

1896.		No. Voucher.	Amount.
Mar. 19.	Goodnow & Lawther, fuel.....	1126	6.54
Mar. 28.	J. A. Vye, secretary, postage, express and supplies.....	1132	71.78
Mar. 28.	Minneapolis Office and School Furniture Co., furniture.....	1137	20.00
Mar. 13.	Adam Lindig, feed.....	1139	10.18
Mar. 16.	Minneapolis Paper Co., supplies.....	1141	7.99
Mar. 25.	W. H. Gruenhagen, supplies.....	1144	8.98
Mar. 9.	Morgan Envelope Co., supplies.....	1146	97.31
April 30.	Pay roll for April.....	1189	324.50
May 1.	Northwestern Telephone Exchange, service for May.....	1222	7.00
April 24.	W. H. Gruenhagen, miscellaneous.....	1238	7.35
Mar. 26.	Gustav E. Stechert, books for library.....	1242	13.00
April 22.	J. A. Vye, secretary, postage, labor and supplies.....	1246	37.30
April 20.	Michigan Buggy Co., equipment.....	1247	65.00
Mar. 23.	C. L. Moffatt, horseshoeing and repairs.....	1249	7.75
April 17.	Northwestern Fuel Co., fuel.....	1252	21.87
Mar. 19.	H. L. Collins & Co., stationery.....	1257	15.25
Mar. 31.	Harrison & Smith, stationery and printing.....	1259	52.75
Mar. 23.	P. Howard, repairs.....	1261	14.05
April 27.	John N. Sayer, tools and repairs.....	1262	5.10
Mar. 28.	Wyckoff, Seamans & Benedict, supplies.....	1266	5.75
May 31.	Pay roll for May.....	1321	410.90
May 25.	J. A. Vye, postage, labor, equipment and supplies.....	1376	68.49
Mar. 31.	Northwestern Fuel Co., fuel.....	1378	2.50
Feb. 19.	Goodnow & Lawther, fuel.....	1379	10.29
Mar. 26.	R. R. Howell & Co., tools and repairs.....	1381	11.38
April 2.	W. H. Gruenhagen, supplies.....	1384	32.05
Mar. 28.	Minneapolis Paper Co., supplies.....	1394	7.40
Mar. 12.	Otto Gas Engine Co., repairs.....	1406	5.70
May 9.	Brooks Bros., repairs.....	1407	24.68
Mar. 9.	John A. Schlener & Co., stationery.....	1408	21.20
Mar. 6.	Keuffel & Esser Co., repairs.....	1412	14.75
June 30.	Northwestern Telephone Exchange, service June and July...	1478	14.00
June 15.	H. L. Collins & Co., stationery.....	1511	3.50
June 27.	J. A. Vye, secretary, postage, labor, supplies and miscellaneous	1519	54.55
June 8.	Northwestern Fuel Co., fuel.....	1526	21.66
June 9.	Goodnow & Lawther, fuel.....	1528	3.77
June 3.	E. W. Hendrickson, feed.....	1534	12.15
April 5.	Page Wire Fence Co., repairs.....	1535	35.16
May 18.	W. H. Gruenhagen, contingent expenses.....	1536	8.10
April 18.	Brooks Bros., repairs.....	1543	7.87
June 10.	Nicols & Dean, repairs.....	1546	6.40
Total			\$7,579.31

Experiment Station—Division of Agriculture.

CURRENT EXPENSE.

1895.		No. Voucher.	Amount.
July 25.	J. A. Vye, secretary, freight, express, repairs and miscellaneous	95	\$17.01
July 23.	W. H. Gruenhagen, miscellaneous.....	96	7.48
July 19.	W. R. Gregg, miscellaneous.....	99	10.74
July 26.	Diamond Elevator Co., feed.....	103	37.50
July 11.	Noyes Bros. & Cutler, supplies.....	109	6.21
July 23.	W. G. Smith, salaries employees and miscellaneous.....	111	11.40
July 23.	O. C. Gregg, supplies.....	115	8.63
July 23.	O. C. Gregg, labor and repairs.....	116	34.65
Aug. 31.	Pay roll for August.....	131	728.45
Aug. 26.	J. A. Vye, express, seed, repairs and supplies.....	171	6.34
Aug. 2.	S. B. Loye & Sons, harness.....	175	8.00
Aug. 5.	Northrup-Braslan-Goodwin Co., seeds and plants.....	177	3.38
Aug. 13.	Noyes Bros. & Cutler, supplies.....	178	2.60
Aug. 5.	Minneapolis Threshing Machine Co., machinery.....	180	37.50
Aug. 24.	W. H. Gruenhagen, supplies and repairs.....	181	18.80
July 31.	John N. Sayer, harness.....	184	42.00
July 31.	W. K. Morison & Co., repairs.....	185	4.68
Aug. 23.	Brooks Bros., repairs.....	191	28.16
July 31.	D. M. Osborne & Co., machinery and supplies.....	193	37.00
Aug. 23.	W. G. Smith, labor and supplies.....	195	55.66
Sept. 30.	Pay roll for September.....	232	524.68
Sept. 25.	J. A. Vye, labor, express and supplies.....	288	5.50

1895.		No. Voucher.	Amount.
Sept. 7.	H. N. Adams, labor.....	289	38.75
April 4.	Haage & Schmidt, seeds.....	304	45.00
July 26.	W. R. Gregg, cutting wheat and oats.....	307	14.75
Sept. 3.	Deere & Webber Co., repairs.....	309	14.68
Aug. 21.	W. K. Morison & Co., repairs.....	310	5.26
Aug. 23.	Minneapolis Iron Store Co., repairs.....	311	5.87
Sept. 26.	C. L. Moffatt, horseshoeing and repairs.....	312	25.00
Oct. 31.	Pay roll for October.....	381	363.40
Sept. 4.	Brooks Bros., repairs.....	486	3.84
Oct. 25.	Adam Lindig, feed.....	488	9.74
Oct. 30.	W. H. Gruenhagen, miscellaneous.....	499	30.13
Oct. 29.	J. A. Vye, secretary, freight, postage, repairs and supplies..	500	15.61
Nov. 30.	Pay roll for November.....	575	391.47
Nov. 30.	J. A. Vye, machinery and freight.....	627	6.95
Nov. 27.	J. A. Vye, feed.....	628	5.07
Nov. 13.	Adam Lindig, feed.....	630	4.41
Nov. 22.	W. H. Gruenhagen, repairs.....	652	4.52
Nov. 26.	C. L. Moffatt, horseshoeing and repairs.....	656	10.30
Nov. 25.	Allen Bros., supplies.....	658	1.20
Oct. 31.	W. K. Morison & Co., tools.....	660	.75
Dec. 31.	Pay roll for December.....	709	210.63
Dec. 31.	J. A. Vye, freight and express.....	748	2.20
Dec. 31.	J. A. Vye, feed.....	749	37.46
Dec. 31.	J. A. Vye, labor, threshing crew.....	750	105.00
Dec. 31.	J. A. Vye, feed.....	752	45.42
Dec. 1.	S. B. Loye & Sons, supplies.....	755	16.60
Nov. 30.	C. A. Hitchcock, freight and feed.....	762	11.50
Dec. 11.	F. F. Pratt, transportation and labor.....	772	27.87
Dec. 23.	John Fee, repairs.....	778	1.40
Dec. 21.	L. B. Wood, machinery.....	782	13.50
Dec. 24.	W. H. Gruenhagen, miscellaneous.....	783	7.15
Dec. 20.	Adam Lindig, feed.....	785	18.73
Dec. 16.	P. Howard, repairs.....	788	.75
Jan. 31.	Pay roll for January.....	843	224.98
Jan. 29.	J. A. Vye, tools, repairs and supplies.....	885	11.79
July 15.	E. W. Hendrickson, seed corn.....	894	25.00
Dec. 31.	W. K. Morison & Co., repairs and miscellaneous.....	925	1.20
Feb. 29.	Pay roll for February.....	979	172.58
Feb. 26.	J. A. Vye, postage and supplies.....	1024	4.28
Feb. 28.	Adam Lindig, feed.....	1030	4.73
Jan. 31.	W. K. Morison & Co., repairs.....	1033	3.15
Feb. 21.	P. J. Hamstrom, repairs.....	1035	2.60
Feb. 21.	John Fee, repairs.....	1040	1.20
Feb. 28.	C. L. Moffatt, horseshoeing and repairs.....	1041	9.75
Feb. 28.	Kelly & Lamb, plumbing.....	1044	17.63
Mar. 31.	Pay roll for March.....	1076	190.08
Mar. 28.	J. A. Vye, secretary, repairs and supplies.....	1032	2.95
Mar. 13.	Adam Lindig, feed.....	1139	23.28
Mar. 25.	Allen Bros., supplies.....	1143	1.10
Feb. 17.	Janney, Semple & Co., tools and supplies.....	1147	12.96
Mar. 25.	Art Engraving Co., printing.....	1151	5.00
1896.			
April 30.	Pay roll for April.....	1189	303.18
April 24.	W. H. Gruenhagen, miscellaneous.....	1238	8.75
April 22.	J. A. Vye, secretary, freight and express.....	1246	7.32
April 29.	Frank Welzbacher, feed.....	1251	5.40
April 24.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1253	5.14
April 18.	Brooks Bros, repairs.....	1254	3.48
April 16.	St. Paul Implement Co., tools and machinery.....	1256	34.50
April 28.	J. A. Vye, secretary, seeds and plants.....	1258	25.00
April 1.	J. I. Case Implement Co., repairs on machinery.....	1264	6.38
May 31.	Pay roll for May.....	1321	359.54
May 25.	J. A. Vye, freight and express, seeds and supplies.....	1376	19.48
April 26.	C. L. Moffatt, horseshoeing and repairs.....	1382	8.50
April 3.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1383	15.69
April 2.	W. H. Gruenhagen, supplies.....	1384	6.80
May 1.	W. F. Webster & Co., seeds and plants.....	1397	15.17
May 18.	J. B. Eustis, administrator, seeds and plants.....	1400	115.00
April 23.	St. Paul Implement Co., one cultivator.....	1403	29.00
April 29.	Keystone Manufacturing Co., one drill.....	1405	9.00
Feb. 29.	Harrison & Smith, printing Bulletins.....	1414	837.95
June 27.	J. A. Vye, secretary, freight, express, repairs and supplies..	1519	24.85
May 18.	W. H. Gruenhagen, contingent expenses.....	1536	7.39
June 10.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1540	3.63
June 18.	Aug. Geesman, feed and supplies.....	1541	10.16
April 18.	Brooks Bros., repairs.....	1543	5.03
Total			<u>\$5,711.88</u>

Experiment Station—Division of Chemistry.

CURRENT EXPENSE.

1895.		No. Voucher.	Amount.
July 25.	J. A. Vye, express, labor and supplies.....	95	\$3.65
July 23.	W. H. Gruenhagen, supplies.....	96	9.95
July 19.	Brooks Bros, repairs.....	112	8.22
Aug. 31.	Pay roll for August.....	131	133.33
Aug. 26.	J. A. Vye, express.....	171	1.05
Aug. 3.	Standard Oil Co., 3 barrels gasoline.....	173	21.26
Aug. 13.	Noyes Bros. & Cutler, supplies.....	178	.42
Aug. 24.	W. H. Gruenhagen, supplies and repairs.....	181	.70
Aug. 12.	Richards & Co., supplies.....	189	15.50
Sept. 30.	Pay roll for September.....	232	133.33
Sept. 25.	J. A. Vye, labor, express and supplies.....	288	7.35
Aug. 31.	W. H. Gruenhagen, repairs.....	291	3.60
Aug. 26.	Richards & Co., apparatus.....	313	7.00
Oct. 1.	Eimer & Amend, apparatus.....	337	50.00
Oct. 31.	Pay roll for October.....	381	146.13
Oct. 3.	Goodnow & Lawther, fuel.....	458	21.46
Oct. 22.	Standard Oil Co., supplies.....	470	31.65
Sept. 30.	Western Supply Co., repairs.....	485	6.50
Oct. 30.	W. H. Gruenhagen, miscellaneous.....	499	1.05
Oct. 29.	J. A. Vye, secretary, freight, express and supplies.....	500	11.74
Nov. 30.	Pay roll for November.....	575	157.78
Nov. 30.	J. A. Vye, labor.....	627	3.30
Nov. 10.	De Lancey & Cook, repairs.....	644	72.00
Nov. 22.	W. H. Gruenhagen, repairs and supplies.....	652	.75
Nov. 19.	Noyes Bros. & Cutler, supplies.....	654	1.25
Dec. 31.	Pay roll for December.....	709	148.11
Dec. 31.	J. A. Vye, labor and supplies.....	748	3.65
Dec. 23.	P. Callahan, labor.....	759	.60
Jan. 31.	Pay roll for January.....	843	143.69
Jan. 29.	J. A. Vye, printing and labor.....	885	2.25
Dec. 30.	Standard Oil Co., 3 barrels gasoline.....	899	23.34
Jan. 25.	John Fee, labor and repairs.....	913	1.40
Feb. 29.	Pay roll for February.....	979	143.33
Feb. 26.	J. A. Vye, express and supplies.....	1024	2.70
Feb. 21.	P. J. Hamstrom, repairs.....	1035	.40
Feb. 28.	Kelly & Lamb, plumbing.....	1044	2.67
Mar. 31.	Pay roll for March.....	1076	85.76
Mar. 28.	J. A. Vye, secretary, express and labor.....	1132	1.60
Mar. 16.	J. A. Vye, stock.....	1134	11.55
Mar. 17.	Noyes Bros. & Cutler, supplies.....	1136	9.90
April 30.	Pay roll for April.....	1189	144.37
April 24.	W. H. Gruenhagen, miscellaneous.....	1238	1.85
April 17.	Standard Oil Co., supplies.....	1241	22.68
April 22.	J. A. Vye, secretary, labor.....	1246	4.00
May 31.	Pay roll for May.....	1321	93.95
May 25.	J. A. Vye, labor, express and supplies.....	1376	6.90
June 27.	J. A. Vye, secretary, freight and express.....	1519	4.58
June 16.	Richards & Co., petty supplies.....	1530	16.30
June 12.	Noyes Bros. & Cutler, petty supplies.....	1531	8.52
Total			<u>\$1,733.07</u>

Experiment Station—Division of Entomology.

CURRENT EXPENSE.

1895.		No. Voucher.	Amount.
Aug. 31.	Pay roll for August.....	131	\$100.00
Sept. 30.	Pay roll for September.....	232	102.88
Oct. 30.	Pay roll for October.....	381	100.00
Oct. 3.	Goodnow & Lawther, fuel.....	458	8.85
Nov. 30.	Pay roll for November.....	575	100.00
Dec. 31.	Pay roll for December.....	709	100.00
Jan. 31.	Pay roll for January.....	843	102.22
Mar. 24.	Haag & Schmidt, seeds.....	901	23.22
Feb. 29.	Pay roll for February.....	979	101.54
Feb. 28.	Kelly & Lamb, plumbing.....	1044	1.23

1895.		No. Voucher.	Amount.
Mar. 31.	Pay roll for March.....	1076	109.22
Mar. 28.	J. A. Vye, secretary, freight.....	1132	1.93
April 30.	Pay roll for April.....	1189	110.61
April 24.	W. H. Gruenhagen, miscellaneous.....	1238	2.75
April 22.	J. A. Vye, secretary, freight and express.....	1248	3.00
May 31.	Pay roll for May.....	1321	106.74
Total			<u>\$1,074.19</u>

Experiment Station—Division of Horticulture.**CURRENT EXPENSE.**

1895.		No. Voucher.	Amount.
July 25.	J. A. Vye, freight, express and repairs.....	95	\$10.42
July 23.	W. H. Gruenhagen, supplies.....	96	3.66
July 29.	Samuel B. Green, miscellaneous.....	101	6.51
July 26.	Diamond Elevator Co., feed.....	103	9.38
June 18.	O. H. Peck, supplies.....	104	3.15
July 5.	C. L. Moffatt, horseshoeing and repairs.....	108	2.00
July 11.	Noyes Bros. & Cutler, supplies.....	109	.45
July 19.	Brooks Bros., repairs.....	112	5.80
Aug. 31.	Pay roll for August.....	131	198.86
Aug. 26.	J. A. Vye, freight, express, labor and supplies.....	171	15.48
Aug. 5.	Northrup-Braslan-Goodwin Co., seeds and plants.....	177	4.20
Aug. 13.	Noyes Bros. & Cutler, supplies.....	178	3.55
Aug. 23.	Robinson & Cary Co., 300 feet 1-inch black pipe.....	179	13.39
Aug. 28.	Samuel B. Green, freight, labor and supplies.....	187	13.65
Aug. 22.	Brooks Bros., repairs.....	191	5.45
Aug. 1.	The Deming Co., tools and machinery.....	194	10.80
Sept. 30.	Pay roll for September.....	232	231.06
Sept. 25.	J. A. Vye, freight, express, repairs and supplies.....	288	18.25
Sept. 27.	H. B. Ayres, services as guide 4 days.....	290	12.00
Aug. 31.	Bemis Bros. Bag Co., supplies.....	305	5.25
July 22.	H. L. Collins & Co., stationery and printing.....	306	4.60
Aug. 31.	W. K. Morison & Co., repairs.....	310	1.68
Sept. 26.	C. L. Moffatt, horseshoeing.....	312	2.00
Sept. 7.	E. M. Chandler, supplies.....	315	12.50
Aug. 20.	O. H. Peck, supplies.....	316	9.07
Oct. 31.	Pay roll for October.....	381	239.47
Oct. 3.	Goodnow & Lawther, fuel.....	458	29.38
Aug. 13.	Northrup-Braslan-Goodwin Co., seeds and plants.....	469	9.13
Nov. 1.	Joseph Chambers, repairs.....	476	9.00
Sept. 7.	Zimmerman Bros., supplies.....	479	13.07
Oct. 25.	Adam Lindig, feed.....	488	2.44
Oct. 30.	W. H. Gruenhagen, miscellaneous.....	499	4.73
Oct. 29.	J. A. Vye, secretary, express, labor and miscellaneous.....	500	28.39
Nov. 30.	Pay roll for November.....	575	220.76
Nov. 30.	J. A. Vye, express, labor and supplies.....	627	15.45
Nov. 27.	J. A. Vye, feed.....	628	1.27
Nov. 13.	Adam Lindig, feed.....	630	1.10
Nov. 18.	W. & T. Smith Co., seeds and plants.....	641	6.00
Nov. 20.	Silas Wilson & Co., seeds and plants.....	642	6.70
Nov. 14.	H. B. Ayres, seeds and plants.....	647	7.00
Nov. 22.	W. H. Gruenhagen, repairs and supplies.....	652	1.35
Nov. 29.	Zimmerman Bros., supplies.....	653	6.99
Nov. 26.	C. L. Moffatt, horseshoeing.....	656	1.65
Nov. 25.	Allen Bros., supplies.....	658	1.40
Dec. 31.	Pay roll for December.....	709	224.24
Dec. 31.	J. A. Vye, freight, labor seeds and repairs.....	748	13.65
Dec. 31.	J. A. Vye, feed.....	749	9.37
Dec. 1.	S. B. Loye & Sons, supplies.....	755	5.20
Dec. 27.	Brooks Bros., repairs.....	768	3.29
Dec. 3.	Jewell Nursery Co., seeds and plants.....	771	9.50
Dec. 14.	Zimmerman Bros., supplies.....	777	5.09
Dec. 23.	John Fee, repairs.....	778	3.00
Nov. 20.	O. H. Peck, supplies.....	784	5.92
Dec. 24.	W. H. Gruenhagen, miscellaneous.....	783	1.15
Jan. 31.	Pay roll for January.....	843	154.52
Jan. 29.	J. A. Vye, express, seeds, plants and supplies.....	885	11.66
Jan. 2.	Samuel B. Green, supplies.....	888	8.13

1895.		No. Voucher.	Amount.
Jan. 11.	Williams & Sons Co., seeds and plants.....	889	3.41
Jan. 24.	C. L. Moffatt, horseshoeing and repairs.....	890	4.00
Jan. 29.	Zimmerman Bros., supplies.....	895	36.62
Jan. 16.	H. C. Boyeson & Co., supplies.....	897	6.35
Jan. 10.	O. H. Peck, supplies.....	911	2.15
Feb. 29.	Pay roll for February.....	979	172.84
Feb. 26.	J. A. Vye, express, plants and supplies.....	1024	8.00
Feb. 28.	Adam Lindig, feed.....	1030	1.18
Feb. 27.	W. H. Gruenhagen, miscellaneous.....	1034	2.63
Feb. 28.	C. L. Moffatt, horseshoeing and repairs.....	1041	5.25
Mar. 31.	Pay roll for March.....	1076	237.11
Mar. 28.	J. A. Vye, secretary, labor.....	1132	4.50
Mar. 28.	Samuel B. Green, freight, tools and miscellaneous.....	1135	5.47
Mar. 17.	Noyes Bros. & Cutler, supplies.....	1136	2.18
Mar. 19.	Zimmerman Bros., supplies.....	1138	13.91
Mar. 13.	Adam Lindig, feed.....	1139	5.84
Mar. 25.	W. H. Gruenhagen, supplies.....	1144	1.40
Mar. 3.	Brooks Bros., supplies.....	1145	6.14
1896.			
April 30.	Pay roll for April.....	1189	220.87
April 24.	W. H. Gruenhagen, miscellaneous.....	1238	2.60
April 22.	J. A. Vye, secretary, express and labor.....	1246	18.40
April 24.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1253	.60
April 18.	Brooks Bros., repairs.....	1254	3.60
April 22.	Ellwanger & Barry, seeds and plants.....	1265	11.57
May 31.	Pay roll for May.....	1321	393.24
May 25.	J. A. Vye, freight, express, labor, seeds, plants and miscellaneous	1376	66.14
April 21.	Noyes Bros. & Cutler, supplies.....	1380	.35
April 3.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1383	11.63
April 17.	Stark Bros., seeds and plants.....	1392	9.29
May 12.	Iowa Agricultural College, seeds and plants.....	1393	5.70
May 22.	Samuel B. Green, freight, labor, seeds and supplies.....	1396	13.60
May 2.	G. Thomson, seeds and plants.....	1398	6.00
April 24.	The Lovett Co., seeds and plants.....	1401	7.10
April 24.	Geo. S. Josselyn, seeds and plants.....	1402	5.97
May. 1.	H. B. Ayres, seeds and plants.....	1404	10.80
June 27.	J. A. Vye, secretary, freight, express, trees and supplies....	1519	18.91
June 26.	J. A. Vye, secretary, wages of employes.....	1524	37.37
May 18.	W. H. Gruenhagen, contingent expenses.....	1536	4.40
June 10.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1540	.66
April 18.	Brooks Bros., repairs.....	1543	5.14
June 6.	Zimmerman Bros., supplies.....	1544	9.52
Total			\$3,045.60

Experiment Station—Animal Husbandry.

CURRENT EXPENSE.

1895.		No. Voucher.	Amount.
July 25.	J. A. Vye, secretary, supplies.....	95	2.35
July 23.	W. H. Gruenhagen, supplies.....	96	.30
July 22.	Pillsbury-Washburn Co., feed.....	106	21.75
July 19.	Minnesota Linseed Oil Co., feed.....	113	20.00
Aug. 31.	Pay roll for August.....	131	179.74
Aug. 26.	J. A. Vye, stock and labor.....	171	5.00
Aug. 26.	Pillsbury-Washburn Co., feed.....	188	48.75
Sept. 30.	Pay roll for September.....	232	192.50
Sept. 25.	J. A. Vye, freight, express, seeds and telegrams.....	288	29.92
Sept. 5.	Edward Paul, stock.....	292	457.89
Sept. 23.	Theo. Louis & Son, stock.....	300	35.00
Aug. 27.	Diamond Elevator Co., feed.....	321	15.21
Oct. 31.	Pay roll for October.....	381	160.10
Oct. 29.	J. A. Vye, secretary, stock.....	453	215.39
Oct. 26.	Diamond Elevator Co., feed.....	478	6.27
Aug. 26.	C. H. Dana, supplies.....	483	6.00
Sept. 4.	Brooks Bros., repairs.....	486	2.88
Oct. 3.	Pillsbury-Washburn Co., feed.....	498	36.50
Oct. 30.	W. H. Gruenhagen, miscellaneous.....	499	.50

1895.

No. Voucher. Amount.

Oct. 29.	J. A. Vye, secretary, miscellaneous.....	500	8.76
Oct. 22.	Adam Lindig, 3,640 pounds wild hay.....	505	16.38
Nov. 30.	Pay roll for November.....	575	276.07
Nov. 30.	J. A. Vye, express and supplies.....	627	7.00
Nov. 30.	J. A. Vye, feed.....	629	11.57
Nov. 13.	Adam Lindig, feed.....	630	8.87
Nov. 30.	J. A. Vye, feed.....	631	57.16
Nov. 27.	J. A. Vye, feed.....	632	110.43
Nov. 25.	Brooks Bros., repairs.....	634	.75
Nov. 22.	W. H. Gruenhagen, repairs.....	652	8.89
Nov. 25.	John Fee, repairs.....	655	13.00
Nov. 21.	Pillsbury-Washburn Co., feed.....	657	31.15
Nov. 27.	Diamond Elevator Co., feed.....	659	11.25
Nov. 25.	W. A. Shafer, stock.....	665	15.00
Nov. 25.	Charles Kerr, stock.....	667	25.00
Dec. 31.	Pay roll for December.....	709	178.84
Dec. 31.	J. A. Vye, railroad fare and miscellaneous.....	748	5.35
Dec. 31.	J. A. Vye, feed.....	749	223.44
Dec. 31.	J. A. Vye, feed.....	791	19.27
Dec. 31.	J. A. Vye, feed.....	752	5.21
Dec. 31.	J. A. Vye, freight on stock.....	753	24.85
Dec. 18.	Pillsbury-Washburn Co., feed.....	764	25.00
Dec. 23.	Crane & Ordway Co., plumbing.....	769	1.37
Dec. 28.	Adam Lindig, feed.....	774	9.09
Dec. 9.	Winston, Farrington & Co., supplies.....	775	1.00
Dec. 23.	John Fee, repairs.....	778	1.80
Dec. 24.	W. H. Gruenhagen, miscellaneous.....	783	2.20
Jan. 31.	Pay roll for January.....	843	287.84
Jan. 29.	J. A. Vye, freight and supplies.....	885	9.27
Jan. 18.	J. A. Vye, stock.....	887	234.00
Jan. 23.	A. Giesman, feed.....	893	166.79
Jan. 13.	Brooks Bros., repairs.....	896	2.97
Jan. 25.	P. J. Hamstrom, repairs.....	898	11.00
Jan. 10.	Archer & Co., feed.....	902	16.90
Jan. 15.	Pillsbury-Washburn Co., feed.....	903	70.00
Jan. 25.	John Fee, labor and repairs.....	913	.20
Jan. 4.	Adam Lindig, feed.....	921	8.88
Dec. 31.	W. K. Morison & Co., miscellaneous.....	925	1.32
Jan. 8.	Northwestern Fuel Co., fuel.....	929	2.03
Dec. 16.	Alex. Gunn, stock.....	936	241.68
Feb. 29.	Pay roll for February.....	979	254.91
Feb. 26.	J. A. Vye, express, supplies and miscellaneous.....	1024	4.10
Feb. 28.	Adam Lindig, feed.....	1030	20.52
Feb. 27.	W. H. Gruenhagen, miscellaneous.....	1034	7.95
Feb. 21.	P. J. Hamstrom, repairs.....	1035	.60
Feb. 21.	John Fee, repairs.....	1040	2.80
Feb. 28.	Kelly & Lamb, plumbing.....	1044	9.22
Mar. 31.	Pay roll for March.....	1076	230.33
Mar. 28.	J. A. Vye, secretary, traveling expenses and supplies.....	1132	4.45
Mar. 13.	Adam Lindig, feed.....	1139	20.03
Mar. 20.	Archer & Co., feed.....	1142	13.00
Mar. 25.	W. H. Gruenhagen, supplies.....	1144	2.20
Mar. 3.	Brooks Bros., supplies.....	1145	2.76
April 30.	Pay roll for April.....	1189	292.28
April 22.	J. A. Vye, secretary, express.....	1246	.85
April 24.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1253	11.62
April 30.	C. N. Cosgrove, stock.....	1255	75.00
May 31.	Pay roll for May.....	1321	234.66
May 25.	J. A. Vye, freight, express and feed.....	1376	8.00
May 2.	Ed. Lindig, feed.....	1377	7.66
April 2.	W. H. Gruenhagen, petty supplies.....	1384	2.35
May 18.	Pillsbury-Washburn Co., feed.....	1409	12.65
April 27.	Archer & Co., feed.....	1410	13.00
Mar. 23.	George Allen, live stock.....	1411	80.00
June 27.	J. A. Vye, secretary, freight, labor and traveling expenses..	1519	23.38
June 3.	E. W. Hendrickson, feed.....	1534	31.75
May 28.	W. H. Gruenhagen, contingent expenses.....	1536	3.65
June 4.	Archer & Co., feed.....	1537	13.00
June 17.	Pillsbury-Washburn Co., feed.....	1538	14.75
April 18.	Brooks Bros., repairs.....	1543	7.10

Total \$5,031.84

Experiment Station—Dairy Husbandry (School).

CURRENT EXPENSE.

1895.		No. Voucher.	Amount.
July 25.	J. A. Vye, secretary, telegrams and supplies.....	95	\$8.57
July 23.	W. H. Gruenhagen, supplies.....	96	2.45
July 26.	Diamond Elevator Co., feed.....	103	4.96
July 13.	Tribune Job Printing Co., stationery and printing.....	110	6.75
July 19.	Brooks Bros., repairs.....	112	4.32
June 12.	Archambo & Morse Co., repairs.....	114	5.65
Aug. 31.	Pay roll for August.....	131	168.46
Aug. 26.	J. A. Vye, supplies.....	171	11.60
Aug. 16.	J. S. Pillsbury, stock.....	176	25.00
Aug. 12.	Northwestern Fuel Co., fuel.....	183	7.31
Aug. 26.	Pillsbury-Washburn Co., feed.....	188	12.80
Sept. 30.	Pay roll, September.....	232	182.23
Sept. 25.	J. A. Vye, freight expense, repairs and supplies.....	288	10.06
Sept. 9.	Pillsbury-Washburn Co., 4,000 pounds bran.....	297	20.92
Aug. 28.	Northwestern Fuel Co., fuel.....	302	8.78
Sept. 20.	Mrs. T. L. Haecker, washing towels.....	303	8.72
Oct. 31.	Pay roll, October.....	381	118.89
Oct. 30.	J. A. Vye, secretary, 1 car oats.....	452	239.67
Oct. 30.	J. A. Vye, secretary, freight on same.....	455	92.92
Oct. 3.	Goodnow & Lawther, fuel.....	458	85.27
Aug. 26.	C. L. Moffatt, horseshoeing and repairs.....	461	3.50
Oct. 8.	Allen Bros., supplies.....	464	3.50
Jan. 2.	Minneapolis Paper Co., supplies.....	475	3.45
Oct. 16.	American Soap and Chemical Co., one-half barrel Kleansall soap	484	17.70
Sept. 30.	Western Supply Co., repairs.....	485	30.68
Sept. 4.	Brooks Bros., repairs.....	486	14.73
Oct. 25.	Adam Lindig, feed.....	488	1.22
Oct. 3.	Pillsbury-Washburn Co., feed.....	498	30.00
Oct. 30.	W. H. Gruenhagen, miscellaneous.....	499	27.43
Oct. 29.	J. A. Vye, secretary, freight, postage and miscellaneous.....	500	33.35
Aug. 22.	Northwestern Fuel Co., fuel.....	502	14.01
Nov. 30.	Pay roll, November.....	575	234.44
Nov. 30.	J. A. Vye, freight, express and supplies.....	627	10.56
Nov. 27.	J. A. Vye, feed.....	628	28.56
Nov. 30.	J. A. Vye, feed.....	629	8.16
Nov. 13.	Adam Lindig, feed.....	630	.56
Nov. 30.	J. A. Vye, feed.....	631	41.40
Nov. 27.	J. A. Vye, feed.....	632	65.23
Oct. 25.	Wagner & Nelson, repairs.....	633	5.00
Nov. 25.	Brooks Bros., repairs.....	634	4.75
Nov. 1.	Aug. Giesman, milk.....	636	67.06
Nov. 27.	W. S. Main, stock.....	638	152.50
Nov. 30.	Andrew Boss, stock.....	640	77.95
Nov. 22.	W. H. Gruenhagen, repairs.....	652	.60
Nov. 25.	Jno. Fee, repairs.....	655	3.60
Nov. 21.	Pillsbury-Washburn Co., feed.....	657	9.00
Nov. 25.	Allen Bros., supplies.....	658	5.25
Nov. 20.	Goodnow & Lawther, fuel.....	663	43.03
Nov. 25.	L. Wallace, stock.....	664	35.00
Nov. 25.	A. G. Wilcox, stock.....	666	100.00
Dec. 31.	Pay roll, December.....	709	302.23
Dec. 31.	J. A. Vye, freight and express and supplies.....	748	40.15
Dec. 31.	J. A. Vye, feed.....	749	4.68
Dec. 31.	J. A. Vye, feed.....	751	45.53
Dec. 31.	J. A. Vye, feed.....	752	12.31
Dec. 31.	J. A. Vye, feed.....	754	4.46
Dec. 31.	J. A. Vye, feed.....	756	94.19
Dec. 28.	Goodnow & Lawther, fuel.....	757	3.13
Dec. 28.	Minneapolis Wood Supply Co., fuel.....	764	70.00
Dec. 18.	Pillsbury-Washburn Co., feed.....	765	11.85
Dec. 4.	Cornish, Curtis & Greene Co., supplies.....	767	95.17
Dec. 2.	Aug. Giesman, milk.....	768	9.17
Dec. 27.	Brooks Bros., repairs.....	769	19.51
Dec. 23.	Crane & Ordway Co., general fittings.....	770	79.66
Dec. 12.	Creamery Package Manufacturing Co., supplies.....	775	1.00
Dec. 9.	Winston, Farrington & Co., supplies.....	776	42.00
Dec. 3.	Minnesota Linseed Oil Works, feed.....	778	19.40
Dec. 23.	Jno. Fee, repairs.....	780	23.90
Dec. 18.	The DeLaval Separator Co., machinery and supplies.....	783	36.04
Dec. 24.	W. H. Gruenhagen, miscellaneous.....	785	8.64
Dec. 20.	Adam Lindig, feed.....	843	400.93
Jan. 31.	Pay roll, January.....		

1895.

No. Voucher. Amount:

Jan. 29.	J. A. Vye, freight, express and supplies.....	885	47.12
Jan. 29.	J. A. Vye, feed.....	886	9.24
Dec. 28.	Minneapolis Paper Co., supplies.....	892	2.55
Jan. 23.	A. Giesman, feed.....	893	13.90
Jan. 31.	U. S. Bear, salary expert butter and cheese maker.....	904	100.00
Jan. 31.	Geo. Gulman, salary expert butter and cheese maker.....	905	60.00
Jan. 31.	N. H. Fulton, salary expert butter and cheese maker.....	906	60.00
Jan. 31.	A. J. Glover, salary expert butter and cheese maker.....	907	40.00
Jan. 31.	A. L. Haecker, salary expert butter and cheese maker.....	908	40.00
Jan. 31.	B. D. White, salary expert butter and cheese maker.....	909	125.00
Jan. 2.	Crane & Ordway Co., supplies.....	910	19.95
Jan. 10.	O. H. Peck, supplies.....	911	5.30
Jan. 24.	W. H. Gruenhagen, miscellaneous.....	912	35.41
Jan. 25.	Jno. Fee, labor and repairs.....	913	28.20
Jan. 31.	Wm. Newman, labor.....	914	12.00
Dec. 30.	Lyman-Eliei Drug Co., supplies.....	915	8.13
Jan. 29.	Crescent Creamery Co., supplies.....	916	1,116.31
Jan. 20.	Cornish, Curtis & Greene Co., supplies and equipment.....	917	25.56
Jan. 27.	Aug. Giesman, milk supplies.....	918	171.81
Dec. 31.	Creamery Package Manufacturing Co., supplies..	919	22.82
Jan. 31.	Carl Sangren, labor.....	920	8.00
Jan. 18.	St. Paul Printing Co., supplies.....	924	6.75
Dec. 31.	W. K. Morison & Co., repairs and supplies.....	925	10.08
Jan. 14.	Goodnow & Lawther, fuel.....	926	101.84
Feb. 29.	Pay roll, February.....	979	348.20
Feb. 26.	J. A. Vye, express, supplies and repairs.....	1024	9.80
Feb. 27.	Harrison & Smith, printing.....	1026	29.75
Feb. 19.	Northwestern Fuel Co., fuel.....	1029	75.79
Feb. 28.	Adam Lindig, feed.....	1030	.59
Feb. 27.	W. H. Gruenhagen, miscellaneous.....	1034	4.67
Feb. 21.	P. J. Hamstrom, repairs.....	1035	3.40
Dec. 17.	Smith & Wyman, furniture.....	1036	15.00
Feb. 21.	Jno. Fee, repairs.....	1040	3.00
Feb. 28.	Kelly & Lamb, plumbing.....	1044	60.63
Mar. 31.	Pay roll, March.....	1076	271.33
Mar. 28.	J. A. Vye, secretary, express and supplies.....	1132	18.99
Feb. 3.	J. A. Vye, 22,805 pounds wild hay.....	1133	45.61
Mar. 13.	Adam Lindig, feed.....	1139	2.90
Feb. 25.	Aug. Giesman, milk supplies.....	1140	70.26
Mar. 25.	Allen Bros., supplies.....	1143	3.95
Mar. 25.	W. H. Gruenhagen, supplies.....	1144	9.49
Jan. 28.	Nutting Truck Works, one platform truck.....	1148	8.00
Mar. 23.	Dr. C. C. Lyford, supplies.....	1149	19.83
Mar. 16.	Lyman-Eliei Drug Co., supplies.....	1150	7.19
Dec. 1.	H. Kelly & Co., repairs.....	1152	40.98
April 30.	Pay roll, April.....	1189	263.31
April 17.	Goodnow & Lawther, fuel.....	1237	6.25
April 24.	W. H. Gruenhagen, miscellaneous.....	1238	7.55
April 22.	J. A. Vye, secretary, freight, express, labor and supplies....	1246	32.25
April 20.	C. C. Lyford, supplies.....	1248	19.43
Feb. 29.	Trainor Bros., fixtures.....	1250	10.00
April 17.	Northwestern Fuel Co., fuel.....	1252	65.63
April 27.	Mrs. F. M. Haecker, salary of employe.....	1260	8.87
April 27.	A. N. Johnson, feed.....	1263	73.90
Mar. 28.	Wyckoff, Seamans & Benedict, supplies.....	1266	1.50
Mar. 27.	Aug. Giesman, milk supplies.....	1267	67.65
May 31.	Pay roll, May.....	1321	250.25
May 25.	J. A. Vye, registering cattle and miscellaneous.....	1376	35.74
Mar. 31.	Northwestern Fuel Co., fuel.....	1378	7.50
Feb. 19.	Goodnow & Lawther, fuel.....	1379	8.37
April 2.	W. H. Gruenhagen, petty supplies.....	1384	11.90
April 30.	Robinson & Cary Co., repairs.....	1388	14.47
May 1.	Tribune Job Printing Co., stationery and printing.....	1389	5.12
May 25.	C. C. Lyford, supplies.....	1391	21.55
April 30.	O. H. Peck, supplies.....	1395	13.75
May 18.	J. L. Ware, repairs.....	1387	6.00
Feb. 13.	Cornish, Curtis & Greene, supplies.....	1385	18.75
June 27.	J. A. Vye, secretary, express, stationery and supplies.....	1519	8.38
June 8.	Northwestern Fuel Co., fuel.....	1526	64.98
June 9.	Goodnow & Lawther, fuel.....	1528	11.30
June 25.	C. C. Lyford, supplies.....	1539	17.54
June 18.	Aug. Giesman, milk supplies.....	1541	59.83
June 24.	Lyman-Eliei Drug Co., supplies.....	1542	7.33

Total \$8,882.16

Experiment Station—Dairy Husbandry (Station).**CURRENT EXPENSE.**

1895.		No. Voucher.	Amount.
May 18.	Zimmerman Bros., supplies.....	97	5.33
June 18.	O. H. Peck, supplies.....	104	6.39
Aug. 31.	Pay roll, August.....	131	70.00
Aug. 27.	J. A. Vye, stock and freight on same.....	172	211.00
Sept. 30.	Pay roll, September.....	232	77.75
Sept. 16.	Lyman-Eliel Drug Co., supplies.....	299	7.02
Oct. 31.	Pay roll, October.....	381	77.75
Oct. 29.	J. A. Vye, secretary, freight on stock.....	454	27.00
Sept. 19.	Keuffel & Esser Co., supplies.....	494	12.00
Nov. 30.	Pay roll, November.....	575	80.09
Aug. 31.	Harrison & Smith, stationery.....	643	13.00
Nov. 25.	Jno. Fee, repairs.....	655	19.80
Dec. 31.	Pay roll, December.....	709	77.75
Jan. 31.	Pay roll, January.....	843	96.15
Feb. 29.	Pay roll, February.....	979	77.75
Feb. 27.	Harrison & Smith, printing.....	1026	21.50
Mar. 31.	Pay roll, March.....	1076	77.75
April 30.	Pay roll, April.....	1189	77.75
May 31.	Pay roll, May.....	1321	77.75
Total			\$958.03

Experiment Station—Veterinary Department (School).**CURRENT EXPENSE.**

1895.		No. Voucher.	Amount.
July 23.	W. H. Gruenhagen, supplies.....	96	2.40
July 25.	M. H. Reynolds, miscellaneous.....	100	11.11
July 5.	C. L. Moffatt, horseshoeing.....	108	1.50
Sept. 23.	Adam Lindig, 875 pounds timothy hay.....	298	5.25
Aug. 28.	Noyes Bros. & Cutler, supplies.....	301	11.68
Oct. 3.	Goodnow & Lawther, fuel.....	458	21.00
Sept. 26.	Noyes Bros. & Cutler, supplies.....	459	13.56
Oct. 28.	M. H. Reynolds, equipment.....	460	4.90
Nov. 30.	Pay roll, November.....	575	.99
Nov. 13.	Adam Lindig, feed.....	630	13.15
Nov. 5.	Tribune Job Printing Co., stationery.....	649	3.37
Feb. 29.	Pay roll, February.....	979	3.03
Feb. 27.	Noyes Bros. & Cutler, supplies.....	1027	10.80
Feb. 28.	Adam Lindig, feed.....	1030	19.84
Mar. 17.	Noyes Bros. & Cutler, supplies.....	1136	.78
Mar. 25.	W. H. Gruenhagen, supplies.....	1144	.75
Feb. 12.	Noyes Bros. & Cutler, supplies.....	1239	12.88
April 24.	A. Lindig, feed.....	1240	4.50
May 2.	Ed. Lindig, feed.....	1377	4.94
April 29.	Noyes Bros. & Cutler, supplies.....	1380	9.51
April 26.	C. L. Moffatt, horseshoeing.....	1382	.75
April 2.	W. H. Gruenhagen, petty supplies.....	1384	1.48
June 27.	J. A. Vye, secretary, express and supplies.....	1519	1.66
June 27.	A. Lindig, feed.....	1521	7.62
June 12.	Noyes Bros. & Cutler, supplies.....	1531	4.72
May 18.	W. H. Gruenhagen, contingent expenses.....	1536	2.25
June 18.	Aug. Giesman, feed.....	1541	5.80
Total			\$1,170.21

Experiment Station—Veterinary Department (Station).**CURRENT EXPENSE.**

1895.		No. Voucher.	Amount.
July 25.	J. A. Vye, secretary, transportation, express and supplies...	95	12.34
July 23.	W. H. Gruenhagen, supplies.....	96	2.40
July 25.	M. H. Reynolds, transportation, library apparatus, etc.....	100	20.68
July 5.	C. L. Moffatt, horseshoeing.....	108	1.50
July 11.	Noyes Bros. & Cutler, supplies.....	109	6.75
Aug. 31.	Pay roll, August.....	131	83.45
Aug. 26.	J. A. Vye, freight and supplies.....	171	24.25
Aug. 1.	E. C. Lindig, 2,300 pounds oats.....	182	15.80
Sept. 30.	Pay roll, September.....	232	66.47
Sept. 25.	J. A. Vye, express, supplies and car fare.....	288	9.85
Sept. 23.	Adam Lindig, 875 pounds timothy hay.....	298	5.25
Sept. 16.	Lyman Eliel Drug Co., supplies.....	299	5.65
Aug. 28.	Noyes Bros. & Cutler, supplies.....	301	11.68
Oct. 31.	Pay roll, October.....	381	64.31
Oct. 3.	Goodnow & Lawther, fuel.....	458	21.00
Sept. 26.	Noyes Bros. & Cutler, supplies.....	459	13.55
Oct. 28.	M. H. Reynolds, equipment.....	460	4.90
Sept. 30.	Western Supply Co., repairs.....	485	2.48
Oct. 29.	J. A. Vye, secretary, books, express and miscellaneous.....	500	7.45
Nov. 30.	Pay roll, November.....	575	80.06
Nov. 30.	J. A. Vye, labor and repairs.....	627	14.20
Nov. 13.	Adam Lindig, feed.....	630	13.15
Nov. 5.	Tribune Job Co., stationery.....	649	15.88
Nov. 19.	Noyes Bros. & Cutler, supplies.....	654	11.12
Dec. 31.	Pay roll, December.....	709	79.30
Dec. 31.	J. A. Vye, labor and supplies.....	748	23.45
Dec. 1.	S. B. Loye & Sons, supplies.....	755	1.80
Dec. 23.	M. H. Reynolds, labor and miscellaneous.....	760	9.50
Nov. 16.	Gustav E. Stechert, books for library.....	763	9.00
Dec. 23.	John Fee, repairs.....	778	.80
Dec. 24.	W. H. Gruenhagen, miscellaneous.....	783	.85
Jan. 31.	Pay roll, January.....	843	71.00
Jan. 29.	J. A. Vye, labor and supplies.....	885	8.00
Jan. 25.	P. J. Hamstrom, repairs.....	898	.60
Feb. 29.	Pay roll, February.....	979	73.66
Feb. 26.	J. A. Vye, labor and miscellaneous.....	1024	17.75
Feb. 27.	Noyes Bros. & Cutler, supplies.....	1027	23.63
Feb. 28.	Adam Lindig, feed.....	1030	19.83
Mar. 31.	Pay roll, March.....	1076	64.48
Mar. 28.	J. A. Vye, secretary, express and labor.....	1132	14.81
Mar. 17.	Noyes Bros. & Cutler, supplies.....	1136	.77
Mar. 25.	W. H. Gruenhagen, supplies.....	1144	.75
April 30.	Pay roll, April.....	1189	73.57
Feb. 12.	Noyes Bros. & Cutler, supplies.....	1239	12.89
April 24.	A. Lindig, feed.....	1240	4.50
April 22.	J. A. Vye, secretary, supplies and miscellaneous.....	1246	3.00
April 18.	Brooks Bros., repairs.....	1254	1.83
May 31.	Pay roll, May.....	1321	71.79
May 25.	J. A. Vye, supplies.....	1376	5.90
May 2.	Ed. Lindig, feed.....	1377	4.94
April 29.	Noyes Bros. & Cutler, supplies.....	1380	9.51
April 26.	C. L. Moffatt, horseshoeing.....	1382	.75
April 2.	W. H. Gruenhagen, petty supplies.....	1384	1.47
May 26.	M. H. Reynolds, petty supplies.....	1399	7.65
June 27.	J. A. Vye, secretary, express and supplies.....	1519	1.66
June 27.	A. Lindig, feed.....	1521	7.63
June 12.	Noyes Bros. & Cutler, supplies.....	1531	4.73
May 18.	W. H. Gruenhagen, contingent expenses.....	1536	2.25
June 18.	Aug. Giesman, feed.....	1541	5.79
Total			<u>\$1,154.02</u>

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NINTH BIENNIAL REPORT

SUMMARY OF THE DISBURSEMENTS OF THE CURRENT EXPENSE
FUNDS FOR THE FISCAL YEAR ENDING JULY 31, 1896.

General university.....			\$41,304.78
College of Science, Literature and the Arts.....			69,048.03
Military Science.....			795.84
College of Engineering and Mechanic Arts.....			18,984.71
The Geological and Natural History Survey.....			9,224.64
College of Law.....			10,342.63
College of Medicine and Surgery.....			17,766.50
College of Homeopathic Medicine and Surgery.....			2,750.73
College of Dentistry.....			8,262.19
College of Pharmacy.....			1,843.18
Experiment Stations.	School.	Station.	
College of Agriculture.....			12,853.60
General Station.....	480.00	7,579.31	8,059.31
Division of Agriculture.....	1,000.00	5,711.88	6,711.88
Division of Chemistry.....	1,000.00	1,733.07	2,733.07
Division of Entomology.....	1,000.00	1,074.19	2,074.19
Division of Horticulture.....	1,000.00	3,045.60	4,045.60
Division of Animal Husbandry.....	635.00	5,031.84	5,666.84
Division of Dairy Husbandry.....	8,882.16	958.03	9,840.19
Division of Veterinary.....	1,170.21	1,154.02	2,324.23
Totals	\$28,020.97	\$25,287.94	\$234,632.14

Note.—The “total” above shows the amount actually paid out during the fiscal year, but not the actual expenses, as the June and July pay rolls were not paid until after August 1st.

SPECIAL APPROPRIATIONS.

GENERAL LIBRARY.

By appropriation

\$10,000.00

DISBURSEMENTS.

1895.		No. Voucher.	Amount.
April 9.	Gustav E. Stechert, books.....	2	17.50
Mar. 9.	Gustav E. Stechert, books.....	3	206.90
Dec. 3.	Gustav E. Stechert, books.....	4	9.55
June 5.	Gustav E. Stechert, books.....	5	182.81
June 28.	C. W. Keys, books.....	6	155.00
May 22.	H. S. Larned, books.....	7	10.00
Jan. 18.	Gustaf Tisclius, books.....	8	10.45
June 2.	Morris & Wilson, books.....	9	76.35
Jan. 11.	Oswald Weigel, books.....	10	88.49
Jan. 29.	H. Wetter, books.....	11	27.72
June 24.	D. Appleton & Co., books.....	12	6.00
July 17.	Gustav E. Stechert, books.....	13	12.51
May 10.	Th. Stauffer, books.....	14	24.51
Aug. 10.	Gustav E. Stechert, books.....	224	23.36
Sept. 7.	Morris & Wilson, books.....	225	19.03
June 14.	Callaghan & Co., books.....	226	12.30
Sept. 5.	Geo. Sidney Smith, books.....	227	19.25
Aug. 30.	F. Klaeber, books.....	228	10.00
Aug. 16.	J. B. Lippincott & Co., books.....	229	6.00

1895.

		No. Voucher.	Amount.
July 20.	William Wesley & Son, books.....	230	11.63
Sept. 24.	Geo. Sidney Smith, books.....	378	106.00
Sept. 5.	Harrison & Smith, binding books.....	379	40.90
Oct. 11.	Gustav E. Stechert, books.....	567	759.08
Oct. 16.	Silver, Burdett & Co., books.....	568	25.00
July 31.	James Roche, books.....	569	83.75
Aug. 6.	Bernard Quaritch, books.....	570	44.06
Sept. 17.	Twin City School Supply Co., books.....	571	7.50
Aug. 7.	E. Menken, books.....	572	3.03
Oct. 21.	G. Sidney Smith, books.....	573	12.60
Nov. 12.	Mrs. W. A. Pike, books.....	573½	150.00
Nov. 12.	Gustav E. Stechert, books.....	674	1,474.51
Nov. 26.	W. H. Moore, books.....	675	318.60
Oct. 1.	Banks Bros., books.....	676	68.45
Dec. 2.	W. S. Pattee, books.....	677	471.50
Nov. 9.	H. L. Collins & Co., binding books.....	678	21.00
Nov. 29.	Wm. M. West, books.....	679	128.72
Dec. 18.	Gustav E. Stechert, books.....	791	631.53
Sept. 20.	Gustav E. Stechert, books.....	792	54.64
Nov. 12.	Gustav E. Stechert, books.....	793	8.30
Dec. 1.	O. J. Breda, books.....	794	241.44
Sept. 25.	Harrison & Smith, binding 182 volumes.....	795	181.29
Nov. 18.	Harrison & Smith, binding 24 volumes.....	796	22.87
Dec. 31.	University Book Store, books.....	797	28.00
Dec. 17.	Silver, Burdett & Co., books.....	798	12.50
Nov. 11.	T. F. Krajewski, books.....	799	100.00
Jan. 13.	John S. Goodwin, books.....	800	50.00
Jan. 8.	Gustav E. Stechert, books.....	937	317.90
Oct. 26.	Sebastian Wimmer, books.....	938	55.00
Jan. 17.	P. Ringer & Co., books.....	939	14.00
Dec. 19.	Gustav E. Stechert, books.....	940	98.06
Jan. 15.	St. Paul Book and Stationery Co., books.....	941	10.80
Feb. 10.	Gustav E. Stechert, books.....	1047	943.44
Feb. 28.	Gustav E. Stechert, books.....	1169	415.30
Feb. 27.	A. S. Clark, books.....	1170	2.77
Mar. 27.	Gustav E. Stechert, books.....	1271	626.18
April 24.	W. H. Moore, books.....	1272	15.00
April 21.	Gustav E. Stechert, books.....	1273	7.50
Mar. 20.	A. S. Clark, books.....	1274	.75
Feb. 18.	Mrs. Susanna M. D. Fry, books.....	1275	39.20
Feb. 2.	Engineers' Club of Philadelphia, books.....	1276	1.00
Jan. 1.	Association of Eng. Societies, books.....	1277	3.00
Dec. 1.	W. R. Hoag, books.....	1278	300
April 1.	The Electrical Review, books.....	1279	48.00
Feb. 4.	American Institute of Electrical Engineers, books.....	1280	5.00
Dec. 5.	The Municipal Engraving Co., books.....	1281	.80
Sept. 11.	Massachusetts Institute of Technology, books.....	1282	5.00
Feb. 18.	The Industrial Publishing Co., books.....	1283	3.00
Mar. 18.	Open Court Publishing Co., books.....	1284	3.00
April 21.	Gustav E. Stechert, books.....	1285	105.73
Mar. 7.	W. H. Moore, books.....	1286	30.55

1896.

July 22.	Harrison & Smith, binding 58 volumes.....	1287	50.10
Mar. 16.	University Book Store, books.....	1288	44.99
Mar. 27.	University Book Store, books.....	1289	3.00
April 27.	University Book Store, books.....	1290	2.55
May 1.	Wm. M. West, books.....	1291	35.81
Nov. 23.	W. R. Hoag, books.....	1292	5.00
Dec. 15.	Albert Nexen, books.....	1293	11.50
May 9.	Gustav E. Stechert, books.....	1415	323.16
May 13.	W. H. Moore, books.....	1416	25.35
Mar. 27.	University Book Store, books.....	1417	1.27
June 11.	Gustav E Stechert, books.....	1551	505.77

Balance in treasury Aug. 1, 1896.....

\$9,737.20
262.80

Total

\$10,000.00

EQUIPMENT OF SUBSTATIONS.

1895.
By appropriation \$20,000.00

DISBURSEMENTS.

1895.		No. Voucher.	Amount.
May 28.	J A Vye, stock.....	17	\$305.00
July 17.	Larsen & Carpenter, buggy and harness.....	18	111.75
July 21.	T. A. Hoverstad, one horse.....	19	150.00
June 12.	Noyes Bros. & Cutler, apparatus and instruments.....	20	24.00
June 26.	Wm. G. Smith, lumber and express.....	21	33.91
May 16.	Emil Greiner, balance and weights.....	22	51.20
June 12.	Karst & Breher, apparatus and instruments.....	23	32.18
Aug. 16.	Bemis Bros. Bag Co., 350 A sacks.....	218	53.75
Aug. 13.	Boeringer & Son, one steel chain.....	219	10.00
Sept. 23.	First National Bank, Northfield, live stock.....	231	925.00
Sept. 23.	Chas. A. Grahn, harness.....	367	156.00
Sept. 28.	J. A. Vye, secretary, freight on car horses, etc.....	368	87.34
Sept. 25.	McKinnon Bros., one wagon.....	369	63.00
Sept. 25.	Larson & Carpenter, one gang plow.....	370	50.00
Oct. 2.	Munn & Filiatrault, equipment.....	531	34.15
Oct. 23.	C. W. Motz, equipment.....	532	26.95
Oct. 7.	Red River Lumber Co., lumber.....	533	63.39
Oct. 22.	Larson & Carpenter, farm implements.....	534	70.45
Sept. 30.	St. Paul Implement Co., farm implements.....	535	48.15
Nov. 30.	Morberg & Nilson, material and labor.....	706	540.00
Nov. 20.	Fleming Manufacturing Co., machinery.....	707	150.00
Dec. 26.	Trainor Bros., material and labor.....	833	2,520.00
Dec. 23.	St. Paul Implement Co., machinery.....	834	13.00
Dec. 16.	A. M. Syversen, material and labor.....	835	180.00
Jan. 28.	Moberg & Nilson, material and labor.....	968	540.00
Dec. 31.	Borden-Selleck Co., equipment (scales).....	969	139.00
Jan. 21.	C. W. Motz, tools and machinery.....	970	28.90
Dec. 24.	St. Paul Implement Co., machinery.....	971	15.65
Feb. 28.	T. A. Hoverstad, equipment (stove).....	1073	16.50
Mar. 25.	Trainor Bros., material and labor.....	1176	720.00
Mar. 30.	Trainor Bros., material and labor.....	1177	385.00
Feb. 28.	Minneapolis Office and School Furniture Co., furniture.....	1178	5.00
1896.			
April 22.	Chas. R. Aldrich, architect's fees.....	1297	237.77
Dec. 28.	Trainor Bros., equipment.....	1298	96.90
April 25.	W. H. Gruenhagen, tools.....	1299	153.77
April 17.	W. H. Gruenhagen, tools.....	1300	157.22
April 7.	Bemis Bros. Bag Co., equipment (bags).....	1301	36.50
April 20.	Marberg & Nelson, equipment, labor on building.....	1302	515.00
April 29.	Boeringer & Son, equipment (one 60-foot steel chain).....	1303	6.50
April 11.	Keystone Manufacturing Co., equipment.....	1304	8.00
June 30.	Auditor Itasca county, farm.....	1441	3,500.00
May 27.	J. A. Vye, live stock.....	1442	620.01
April 29.	Dere & Webber Co., farm machinery.....	1443	103.00
April 30.	Pitts Agricultural Works, farm machinery.....	1444	20.00
May 27.	J. A. Vye, live stock.....	1445	33.00
April 28.	John A. Schlener & Co., stationery.....	1446	28.65
April 17.	A. V. Cleveland, machinery.....	1447	58.00
April 29.	Dean & Co., machinery.....	1448	7.00
April 30.	Bemis Bros. Bag Co., bags.....	1449	18.13
April 27.	Boutel Bros., furniture.....	1450	187.65
Oct. 28.	Boutel Bros., furniture.....	1451	297.40
May 28.	W. M. Hays, stock.....	1452	100.00
May 28.	W. M. Hays, stock.....	1453	200.00
May 28.	Ben Herrig, tools and machinery purchased.....	1454	678.47
April 25.	Gale Manufacturing Co., machinery.....	1455	19.00
May 16.	Chas. T. Leonard, supplies (two water covers).....	1456	16.25
Aug. 28.	W. H. Gruenhagen, supplies (hardware).....	1457	8.20
April 17.	J. I. Case Implement Co., machinery.....	1458	73.00
April 17.	St. Paul Implement Co., machinery.....	1459	284.04
April 16.	Lindsay Bros., machinery.....	1460	20.40
April 16.	The Konantz Saddlery Co., harness.....	1461	77.85
April 28.	John N. Sayer, harness.....	1462	40.00
April 29.	Borden & Selleck Co., scales.....	1463	8.40
April 17.	Deere & Webber Co., machinery.....	1464	50.00
June 4.	A. Paupour, cedar fence posts.....	1552	49.38
June 23.	Espe Bros., drilling well, and fixtures.....	1553	217.50
May 15.	A. M. Sivertson, material and labor.....	1554	35.00
June 30.	W. M. Hays, live stock.....	1555	120.00
June 26.	Joe La Fountaine, laying cellar wall.....	1556	25.00
April 29.	H. A. Muckle Mnfg. Co., machinery.....	1557	73.00

1896.		No. Voucher.	Amount.
April 5.	Page Woven Wire Fence Co., wire fence.....	1558	290.75
June 15.	Minnesota Moline Plow Co., machinery.....	1559	16.95
April 25.	Hawkins Bros., equipment (elm and ash trees).....	1560	7.00
June 27.	J. A. Vye, secretary, live stock.....	1561	175.00
Balance in treasury Aug. 1, 1896.....			\$16,218.95
Total			3,781.05
			<u>\$20,000.00</u>

SUPPORT OF SUBSTATIONS.

1895.		
By appropriation		\$5,000.00

DISBURSEMENTS.

1895.		No. Voucher.	Amount.
June 26.	W. M. Hays, freight and transportation.....	24	34.10
July 31.	T. A. Hoverstad, salaries of employes.....	25	14.70
July 23.	Ben Mennard, breaking 19 acres.....	26	38.00
July 27.	Jo. Lariviere, breaking 45 acres.....	27	90.00
July 27.	Charles Duval, breaking 45 acres.....	28	90.00
July 12.	S. L. Collins, livery hire.....	29	7.50
July 20.	Talesfore Yeneroux, breaking land.....	30	37.10
July 23.	Edward Ralston, breaking land.....	31	31.00
July 24.	T. A. Hoverstad, salaries of employes.....	32	98.49
July 31.	T. A. Hoverstad, salary May, June and July.....	33	300.00
July 20.	T. A. Hoverstad, miscellaneous.....	34	6.40
July 23.	W. G. Smith, labor.....	35	48.75
July 20.	F. H. Martin, team 1¾ days.....	36	5.25
Aug. 27.	J. Magean, cutting brush.....	220	40.50
Aug. 23.	T. A. Hoverstad, labor.....	221	23.80
Aug. 23.	T. A. Hoverstad, breaking 34 acres.....	222	6.80
Aug. 31.	T. A. Hoverstad, salary employe.....	223	100.00
Sept. 27.	T. A. Hoverstad,, salary employe.....	371	100.00
Oct. 5.	W. M. Hays, freight and transportation.....	372	41.35
Sept. 30.	J. A. Vye, secretary, freight and transportation.....	373	16.50
Aug. 23.	T. A. Hoverstad, miscellaneous.....	536	33.15
Oct. 29.	T. H. Mortin, supplies.....	537	83.25
Oct. 4.	E. M. Walsh, feed.....	538	36.00
Oct. 29.	J. A. Vye, secretary, miscellaneous.....	539	9.43
Sept. 30.	W. M. Hays, freight and transportation.....	540	78.32
Oct. 23.	T. A. Hoverstad, miscellaneous.....	541	125.49
Nov. 1.	T. A. Hoverstad, salary for October.....	541½	100.00
Nov. 30.	J. A. Vye, salaries of employes, feed and miscellaneous.....	701	251.14
Nov. 27.	W. M. Hays, freight and transportation.....	702	42.05
Nov. 29.	W. M. Hays, freight and transportation.....	703	6.85
Nov. 26.	T. A. Hoverstad, one month's salary.....	704	100.00
Nov. 26.	M. L. Maxwell, one month's wages.....	705	35.00
Dec. 20.	T. A. Hoverstad, salary for December.....	836	100.00
Dec. 27.	F. F. Pratt, freight.....	837	8.53
Dec. 20.	F. F. Pratt, labor.....	838	11.00
Dec. 31.	J. A. Vye, freight and feed.....	839	11.75
Dec. 20.	T. A. Hoverstad, salaries employes, freight, miscellaneous.....	840	274.93
Dec. 20.	Ole E. Estrom, labor.....	841	25.00
Jan. 28.	T. A. Hoverstad, salary for January.....	972	100.00
Jan. 31.	W. M. Hays, freight and transportation.....	973	36.90
Jan. 27.	T. A. Hoverstad, freight, repairs and miscellaneous.....	974	36.83
Jan. 27.	Ole E. Estrem, labor one month.....	975	25.00
Jan. 27.	Frank F. Pratt, labor one month.....	976	22.00
Jan. 27.	A. J. Converette, 119 bushels oats.....	977	17.85
Dec. 11.	Great Northern Railway Line, putting in road crossing.....	1068	22.18
Feb. 24.	T. A. Hoverstad, freight, postage, feed and miscellaneous... ..	1069	44.40
Feb. 24.	F. H. Pratt, labor one month.....	1070	22.00
Feb. 24.	Ole E. Estrem, labor one month.....	1071	25.00
Feb. 24.	T. A. Hoverstad, salary for February.....	1072	100.00
Mar. 28.	T. A. Hoverstad, salary for March.....	1179	100.00
Mar. 28.	T. A. Hoverstad, freight and transportation.....	1180	6.60
Mar. 28.	F. H. Pratt, labor one month.....	1181	22.00
Mar. 28.	Ole E. Estrem, labor one month.....	1182	25.00
April 24.	James Boss, salary employe	1305	10.00
April 24.	Ole E. Estrem, salary employe.....	1306	20.00

1895.		No. Voucher.	Amount.
April 24.	F. F. Pratt, salary employe.....	1307	25.00
April 24.	Crookston Times, stationery.....	1308	5.19
April 24.	F. H. Mann, labor.....	1309	10.00
April 24.	T. A. Hoverstad, April salary.....	1310	100.00
April 24.	T. A. Hoverstad, freight, tools and miscellaneous.....	1311	39.10
Feb. 24.	Crookston Oat Meal Co., feed.....	1312	21.40
April 24.	T. T. Pratt, salaries employes.....	1313	13.55
April 27.	Wm. G. Smith, freight and supplies.....	1314	7.12
April 27.	W. W. Pendergast, salaries employes.....	1315	33.00
Mar. 26.	H. Langevin, miscellaneous.....	1316	9.50
April 29.	Frank Wilzbacher, feed.....	1317	16.00
April 22.	S. C. Johnson, feed.....	1318	12.55
April 29.	J. A. Vye, freight.....	1319	64.86
May 31.	Pay roll, labor.....	1320	502.84
1896.			
June 30.	Pay roll, labor.....	1418	462.07
April 27.	T. A. Hoverstad, supplies.....	1419	17.50
May 25.	W. W. Pendergast, supplies.....	1420	30.25
May 29.	W. M. Hays, freight and transportation.....	1421	123.79
April 30.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1422	58.25
May 2.	Itasca Mercantile Co., supplies.....	1423	48.10
May 23.	T. A. Hoverstad, freight, transportation and miscellaneous..	1424	68.09
April 10.	M. G. Legnee, contingent expenses.....	1425	6.00
May 20.	W. J. and H. D. Powers, supplies.....	1426	5.12
May 3.	J. F. Metzgar, supplies.....	1427	12.52
April 29.	Diamond Elevator Co., feed.....	1428	23.98
May 27.	J. A. Vye, freight, express and miscellaneous.....	1429	4.76
Jan. 22.	C. W. Motz, supplies.....	1430	13.90
April 23.	Nils Muns, supplies.....	1431	15.98
Dec. 3.	Red River Lumber Co., lumber.....	1432	18.29
April 18.	Budd Reeve, supplies.....	1433	7.75
April 20.	Northrup-Braslan-Goodwin Co., seeds and plants.....	1434	21.48
May 2.	H. L. Collins & Co., stationery.....	1435	13.75
May 8.	A. Putney, man and team.....	1436	21.16
May 27.	Denney-Stevens Tag Co., stationery.....	1437	5.00
April 26.	George Veni, supplies.....	1438	18.19
May 16.	Jewell Nursery Co., seeds and plants.....	1439	10.60
May 21.	I. U. Jennings, supplies.....	1440	5.00
			<hr/>
Balance in treasury Aug. 1, 1896.....			\$4,969.84
			<hr/>
Total			30.16
			<hr/>
			\$5,000.00
			<hr/>

SUPPORT OF THE SCHOOL OF MINES.

1895.		
Appropriation		\$5,000.00

DISBURSEMENTS.

1895.		No. Voucher.	Amount.
Mar. 1.	Homan Lime and Cement Co., brick.....	53	\$215.13
Mar. 4.	A. G. Kinslow, steam heating apparatus.....	54	505.75
Mar. 12.	C. A. Smith Lumber Co., lumber.....	55	14.40
Jan. 21.	C. A. Smith Lumber Co., lumber.....	56	437.35
Feb. 23.	C. A. Smith Lumber Co., lumber.....	57	111.43
Feb. 28.	W. K. Morison & Co., miscellaneous hardware.....	58	35.45
Jan. 30.	W. K. Morison & Co., miscellaneous hardware.....	59	23.12
Jan. 29.	D. & D. Elec. Mfg. Co., machinery.....	60	725.00
Jan. 29.	E. F. Fallow, 22 loads sand.....	61	16.75
Dec. 14.	Wm. R. Morris (receiver) plumbing.....	62	55.00
Sept. 30.	Wm. R. Appleby, books and miscellaneous.....	341	18.65
Sept. 1.	Littlefield & Yerk.....	342	41.24
July 16.	Zimmerman Bros., photographic supplies.....	343	19.35
Sept. 27.	Zimmerman Bros., photographic supplies.....	344	6.57
Aug. 17.	Lyman-Elie! Drug Co., supplies.....	345	5.15
Sept. 17.	Minneapolis Office and School Furniture Co., one No 143 desk	346	17.00
Oct. 31.	Wm. R. Appleby, supplies	556	10.87
Oct. 16.	David Buck, apparatus and instruments.....	557	55.00

1895.		No. Voucher.	Amount.
Aug. 28.	Minneapolis General Electric Co., supplies.....	558	5.00
Sept. 28.	Minneapolis General Electric Co., supplies.....	559	5.00
Oct. 11.	Theo. Alteneder & Son, apparatus and instruments.....	560	61.17
Oct. 21.	A. S. Alve Company, apparatus and instruments.....	561	23.07
Oct. 15.	Geo. E. Watson & Co., mechanical drawing supplies.....	562	20.52
Oct. 26.	Noyes Bros. & Cutler, chemical supplies.....	563	79.24
Dec. 31.	Wm. R. Appleby, supplies.....	814	19.17
Nov. 25.	Goodnow & Lawther, fuel	815	13.20
Nov. 26.	Buff & Berger, apparatus.....	816	313.45
Nov. 2.	Northwestern Fuel Co., fuel	817	5.50
Dec. 2.	Minneapolis General Electric Co., supplies.....	818	10.00
Dec. 1.	Wm. R. Appleby, supplies.....	819	28.75
Nov. 29.	Minneapolis Office and School Furniture Co., furniture.....	820	300.00
Nov. 1.	Denver Fire Clay Co., apparatus.....	821	29.60
Nov. 7.	Richards & Co., chemical supplies.....	822	54.25
Jan. 20.	Hagerty Bros. & Co., supplies.....	942	14.35
Jan. 31.	Wm. R. Appleby, salaries employes, and supplies.....	943	7.32
April 1.	H. Downs & Sons, material and labor.....	1067	1,598.82
Mar. 30.	Wm. R. Appleby, supplies.....	1171	11.78
Mar. 14.	Denver Fire Clay Co., tools and machinery.....	1172	45.75
Mar. 21.	Goodnow & Lawther, fuel.....	1173	13.50
Mar. 17.	National Lead Co., supplies.....	1174	11.50
Mar. 23.	Justis Roe & Sons, tools.....	1175	15.00
			<hr/>
Balance in treasury Aug. 1, 1896.....			\$4,999.15
			.85
Total			<hr/> \$5,000.00 <hr/>

**Special Annual Appropriation for Salaries of Instructors in the School
of Mines and for Electrical Engineering.**

1895.		
Aug. 1.	Annual Appropriation.....	\$4,500.00

DISBURSEMENTS.

1895.		No. Voucher.	Amount.
Sept. 30.	Wm. R. Appleby, salary.....	380	\$220.00
Sept. 30.	Geo. D. Shepardson, salary.....	380	210.00
Oct. 31.	Wm. R. Appleby, salary.....	574	220.00
Oct. 31.	Geo. D. Shepardson, salary.....	574	210.00
Nov. 30.	Wm. R. Appleby, salary.....	708	220.00
Nov. 30.	Geo. D. Shepardson, salary.....	708	210.00
Dec. 31.	Wm. R. Appleby, salary.....	842	220.00
Dec. 31.	Geo. D. Shepardson, salary.....	842	210.00
Jan. 31.	Wm. R. Appleby, salary.....	978	220.00
Jan. 31.	Geo. D. Shepardson, salary.....	978	210.00
Feb. 29.	Wm. R. Appleby, salary.....	1075	220.00
Feb. 29.	Geo. D. Shepardson, salary.....	1075	210.00
Mar. 31.	Wm. R. Appleby, salary.....	1188	220.00
Mar. 31.	Geo. D. Shepardson, salary.....	1188	210.00
April 30.	Wm. R. Appleby, salary.....	1319½	220.00
April 30.	Geo. D. Shepardson, salary.....	1319½	210.00
May 31.	Wm. R. Appleby, salary.....	1465	220.00
May 31.	Geo. D. Shepardson, salary.....	1465	210.00
June 30.	Wm. R. Appleby, salary.....	1550½	220.00
June 30.	Geo. D. Shepardson, salary.....	1550½	210.00
June 30.	F. W. Denton, salary.....	1550½	200.00
Total			<hr/> \$4,500.00 <hr/>

BUILDING AND EQUIPMENT.

Drill and Assembly Hall.

1895.		
By appropriation		\$37,500.00

DISBURSEMENTS.

1895.		No. Voucher.	Amount.
Sept. 28.	Trainor Bros., material and labor.....	339	\$3,787.08
Oct. 1.	H. Downs & Sons, material and labor.....	340	598.50
Oct. 31.	Trainor Bros., material and labor.....	564	2,160.00
Oct. 28.	Daily Globe, advertisement for proposals.....	565	6.00
Nov. 27.	Trainor Bros., material and labor.....	669	1,558.00
Nov. 27.	Chas. R. Aldrich, architect's fees.....	670	361.35
Nov. 30.	Pay roll, men and teams grading.....	671	197.75
Dec. 6.	Fagan Bros., earth for grading.....	672	60.80
Dec. 30.	Trainor Bros, material and Labor.....	801	3,653.00
Dec. 18.	C. A. Smith Lumber Co., lumber.....	802	9.22
Nov. 27.	Richards & Co., apparatus and instruments.....	803	65.80
Dec. 5.	Noyes Bros. & Cutler, equipment.....	804	97.10
Dec. 16.	Noyes Bros & Cutler, equipment.....	805	43.60
Dec. 7.	Bausch & Lomb Optical Co., microscopes.....	806	160.00
Jan. 20.	D. W. Sprague, men and teams, filling.....	807	11.25
Dec. 30.	D. M. Gilmore & Co., plumbing.....	808	16.66
Nov. 13.	D. M. Gilmore & Co., plumbing.....	809	25.74
Dec. 26.	C. H. Aldrich, architect's fees.....	810	1,200.00
Nov. 29.	H. Downs & Sons, material and labor.....	811	513.00
Dec. 31.	H. Downs & Sons, material and labor.....	812	283.50
Oct. 31.	Warner & Swasey, apparatus.....	813	664.79
1896.			
Jan. 27.	Angus McLeod Co., material and labor	944	4,480.20
Jan. 17.	Northern Hydraulic Press Brick Co., material	945	442.50
Jan. 27.	Kelly & Lamb, steam heating.....	946	180.00
Feb. 27.	Angus-McLeod Co., material and labor.....	1048	4,325.40
Feb. 28.	Kelly & Lamb, heating and ventilating.....	1049	1,620.00
Feb. 27.	Northern Hydraulic Press Brick Co., material	1050	1,019.52
Feb. 29.	James Bladon & Co., gas and electric fixtures.....	1156	197.00
Feb. 29.	The Journal Printing Co., advertising proposal	1157	20.00
Mar. 12.	Chas. R. Aldrich, architect's fees.....	1158	30.87
Mar. 27.	R. Alexander, equipment.....	1159	39.34
Feb. 27.	Glessner & Washburn, equipment.....	1160	69.00
Jan. 25.	A. Repsold & Schne.....	962	323.33
Mar. 29.	L. A. Tannehill, carpenter work.....	1161	36.00
Mar. 28.	Northern Hydraulic Press Brick Co., face brick.....	1162	537.98
Mar. 28.	Kelly & Lamb, heating and ventilating.....	1163	450.00
Mar. 31.	F. J. Wulling, equipment.....	1164	98.05
Mar. 12.	McDonald Bros., equipment.....	1165	10.65
Mar. 12.	Eimer & Amend, equipment.....	1166	8.00
Mar. 11.	Gardner & Davis, equipment.....	1167	17.92
Mar. 25.	Noyes Bros. & Cutler, equipment.....	1168	87.48
Dec. 26.	Trainor Bros., material and labor.....	947	35.00
Dec. 31.	H. Kelly & Co., putting in sewer.....	948	130.00
Jan. 24.	H. Kelly & Co., plumbing.....	949	156.46
Dec. 28.	Smith & Wyman, equipment.....	950	35.00
Dec. 30.	Smith & Wyman, material and labor	951	95.00
Jan. 4.	Smith & Wyman, material and labor	592	38.50
Jan. 20.	D. M. Gilmore & Co., plumbing.....	953	16.81
Jan. 17.	D. M. Gilmore & Co., plumbing.....	954	15.64
Jan. 14.	Minneapolis Gas Light Co., fittings	955	4.36
Dec. 26.	C. A. Smith Lumber Co., lumber.....	956	2.94
Dec. 30.	Ernest Leitz, apparatus.....	957	1,987.68
Jan. 24.	Noyes Bros. & Cutler, equipment.....	958	102.81
Jan. 2.	Richards & Co., equipment.....	959	283.65
Jan. 25.	Goodyear Rubber Co., equipment.....	960	8.57
Nov. 30.	Illinois Glass Co., equipment.....	961	6.22
Aug. 30.	Aug. Sandberg, covering steam pipes	509	110.00
Aug. 28.	F. G. Corser, architect's fees.....	510	183.00
Aug. 28.	Chicago Gauge Co., electric clock.....	511	33.00
Aug. 24.	Crolens, Tucker & Allen, equipment	512	6.35
Aug. 16.	Elijah J. Malley, equipment.....	513	11.76
Aug. 31.	F. F. Wesbrook, apparatus.....	514	27.59
Aug. 29.	Trainor Bros., material and labor.....	515	3,600.00
Aug. 26.	Richards & Co., apparatus.....	516	97.54
Aug. 16.	Bausch & Lomb Optical Co., apparatus.....	517	87.38
Aug. 16.	Noyes Bros. & Cutler, equipment.....	518	38.35
Feb. 28.	Minneapolis Office and School Furniture Co., equipments...21051		493.00

Feb. 12.	Noyes Bros. & Cutler, equipment.....	1052	38.93
Jan. 25.	Trainor Bros., material and labor.	1053	7.70
Feb. 8.	Jas. Bladon & Co., equipment.....	1054	5.27
Feb. 6.	J. M. Locke, equipment.....	1055	12.00
Jan. 24.	H. Kelly & Co., equipment.....	1056	7.59
Feb. 7.	Leslie & McAfee, equipment.....	1057	2.45
Jan. 31.	Minneapolis Stamp and Stencil Co., equipment.....	1058	3.20
Feb. 7.	L. Wolff Manufacturing Co, equipment	1059	2.74
Feb. 1.	D. M. Gilmore & Co., equipment.....	1060	7.32
Feb. 25.	Richard & Co., equipment.....	1061	68.38
Feb. 28.	F. J. Wulling, equipment.....	1062	7.94
Feb. 26.	Noyes Bros. & Cutler, equipment.....	1063	26.80
Feb. 6.	Kolesch & Co., equipment.....	1064	34.20
Feb. 6.	J. M. Locke, equipment.....	1065	10.88
Jan. 31.	R. Alexander, equipment.....	1066	189.00
			<hr/>
Balance in treasury Aug. 1, 1896.....			\$37,497.48
Total			<hr/> \$2.52 <hr/>
			<hr/> \$37,500.00 <hr/>

Histological Laboratory.

By appropriation	\$20,000.00
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DISBURSEMENTS.

1895.		No. Voucher.	Amount.
July 24.	F. G. Corser, architect's fees.....	15	900.00
July 30.	Trainor Bros., material and labor.....	16	10,200.00
Aug. 28.	Trainor Bros., material and labor.....	202	7,209.00
Sept. 1.	Pay roll, men and teams grading.....	203	226.58
Sept. 28.	Trainor Bros., material and labor.....	339	1,464.42
			<hr/>
			\$20,000.00 <hr/>

Dining Hall and Dormitory.

1895.		No. Voucher.	Amount.
Aug. 1.	Balance in Treasury Aug. 1, 1895.....		\$39,518.12

DISBURSEMENTS.

1895.		No. Voucher.	Amount.
July 30.	De Lancey & Cooke, material and labor	37	9,595.83
July 15.	Nelson-Tenney Lumber Co., lumber	38	28.72
July 3.	Robinson & Cary Co., equipment....	39	31.65
June 15.	Crane & Ordway Co., equipment.....	40	57.70
Aug. 30.	De Lancey & Cooke, material and labor	204	4,257.90
Aug. 27.	Kelly & Lamb, heating and new bolier	205	576.00
Aug. 20.	W. W. Sykes & Co., plumbing.....	206	607.50
Sept. 30.	De Lancey & Cooke, material and labor	347	6,691.50
Sept. 30.	Chas. R. Aldrich, architect's fees.....	348	500.00
Aug. 30.	S. M. Klarquist, 300 yards brick sidewalk	349	165.00
Sept. 30.	Kelly & Lamb, heating apparatus.....	350	1,800.00
Oct. 2.	Burtis & Howard, electric wiring..	351	270.90
Sept. 14.	Wagner & Nelson, painting.....	352	194.25
Oct. 4.	Jno. Kelly, labor, man and team.....	353	120.25
Sept. 16.	Western Supply Co., plumbing.....	354	78.66
Sept. 21.	Nelson-Tenney Lumber Co., lumber	355	33.77
Sept. 1.	Wallblom Furniture Co., furniture.....	356	17.00
Sept. 27.	Brooks Bros., lumber.....	357	10.14
Sept. 23.	Wagner & Nelson, painting.....	358	14.00
Sept. 19.	Brooks Bros., lumber	359	9.27
Nov. 4.	C. R. Aldrich, architect's fees.....	519	287.90
Nov. 1.	Jas. Chambers, laying sidewalk.....	520	19.20
Oct. 29.	J. A. Vye, secretary, labor, grading	521	302.37

1895.		No. Voucher.	Amount.
Oct. 26.	Frank Gibbs, labor, man and team, grading	522	12.00
Oct. 28.	Ed. Fallon, labor, man and team, grading	523	52.00
Oct. 29.	Boutell Bros., equipment.....	524	1,015.40
Oct. 25.	Walterstorff & Haskell, equipment.....	525	554.15
Oct. 5.	St. Anthony Furniture Co., furniture	526	385.60
Oct. 26.	Kelly & Lamb, heating apparatus.. ..	527	649.80
Oct. 30.	De Lancey & Cooke, material and labor	528	5,532.30
Nov. 25.	De Lancey & Cooke, material and labor.....	680	3,058.55
Nov. 30.	W. W. Sykes & Co., plumbing.....	681	826.50
Nov. 30.	J. A. Vye, labor, grading.....	682	221.25
Oct. 14.	Twin City Sidewalk Co., laying walks	683	412.27
Oct. 31.	Chris. Peterson, grading.....	684	46.50
Oct. 16.	A. Knutson, grading.....	685	47.25
Nov. 2.	Glessner & Washburn, 25 dozen chairs	823	400.00
Oct. 7.	Glessner & Washburn, furniture.....	824	140.40
Jan. 25.	Kelly & Lamb, heating and ventilating	963	336.20
Jan. 1.	F. H. Nutter, salary employe.....	964	15.00
May 22.	Burtis & Howard, electric wiring.....	1580	72.90
June 26.	J. A. Vye, secretary, grading.....	1581	70.14
			<hr/>
Balance in treasury, Aug. 1, 1896.....			\$39,517.72
			40
Total			<hr/> \$39,518.12 <hr/>

Library and Assembly Hall.

1895.		
Aug. 1.	Balance in treasury Aug. 1, 1895.....	\$242.56

DISBURSEMENTS.

1895.		No. Voucher.	Amount.
Sept. 28.	Minneapolis Office and School Furniture Co., furniture.....	566	\$242.56

Addition to Dairy Hall at School of Agriculture.

By appropriation	\$15,000.00
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DISBURSEMENTS.

1895.		No. Voucher.	Amount.
July 10.	Trainor Bros., Material and labor	41	\$3,675.00
July 30.	Chas. R. Aldrich, architect's fees.....	42	500.00
Jan. 31.	Cornish, Curtis & Greene Co., equipment	43	126.40
July 13.	J. S. Sewall, making profile of sewer	44	5.00
July 20.	J. A. Vye, evpress on box glass.....	45	8.15
July 9.	C. J. Hibbard, equipment (furniture)	46	14.75
July 18.	W. H. Gruenhagen, equipment (refrigerator)	47	30.00
May 7.	Zimmerman Bros., equipment.....	48	63.65
July 6.	St. Paul Rubber Co., equipment (hose)	49	20.45
July 24.	W. H. Gruenhagen, stove pipe.....	50	2.85
June 28.	J. A. Vye, architect's expenses to Madison, Wis.....	51	18.10
Aug. 28.	Trainor Bros., material and labor	207	2,799.00
July 16.	Emil Greiner, equipment.....	208	119.71
Aug. 1.	De Coster & Clark Co., equipment (furniture)	209	47.50
Aug. 4.	Boeringer & Son, instruments.....	210	40.50
July 15.	C. J. Hibbard, equipment.....	211	32.10
Jan. 5.	R. R. Howell & Co., steam pump.....	212	22.50
Aug. 24.	W. H. Gruenhagen, equipment.....	213	14.60
Sept. 28.	Trainor Bros., material and labor.....	360	2,700.00
Sept. 27.	A. G. Kinslow, heating apparatus.....	361	956.43
Aug. 29.	De Laval Separator Co., machinery	362	530.00
Sept. 27.	Trainor Bros., smoke stack.....	363	140.00
Sept. 2.	Cornish-Curtis-Green Co., apparatus	364	60.00
Oct. 1.	E. B. Meyrowitz, apparatus.....	365	35.00
Sept. 25.	J. A. Vye, freight on apparatus.....	366	15.02
Oct. 29.	Trainor Bros., material and labor.....	529	720.00
Oct. 23.	A. G. Kinslow, heating apparatus.....	530	478.12
Nov. 27.	Trainor Bros., material and labor.....	686	1,476.60
Nov. 1.	Robinson & Cary Co., plumbing.....	687	31.04

UNIVERSITY BOARD OF REGENTS.

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1895.		No. Voucher.	Amount.
Oct. 18.	A. G. Kinslow, changing radiators	688	16.00
Oct. 29.	Western Supply Co., equipments	689	18.07
Dec. 26.	A. G. Kinslow, heating apparatus	825	159.40
Nov. 29.	McDonald Bros., equipment	826	31.37
1896.			
Dec. 19.	Vermont Farm Machinery Co., equipment	965	36.15
Jan. 2.	P. S. Matson, lettering doors	966	7.50
Feb. 27.	H. Kelly & Co., floor drains	1074	40.00
Balance in treasury, Aug. 1, 1896			\$14,990.96
Total			9.04
			<u>\$15,000.00</u>

Sheep, Swine and Poultry Buildings and Blacksmith Shop.

1895.		
By Appropriation		\$7,000.00

DISBURSEMENTS.

1895.		No. Voucher.	Amount.
July 30.	De Lancey & Cooke, material and labor	52	\$943.00
Aug. 28.	Trainor Bros., material and labor	214	945.00
Apr. 22.	H. W. Brewster, equipment	215	35.00
Aug. 30.	De Lancey & Cooke, material and labor	216	737.55
Aug. 27.	R. O. Lunke, moving building	217	60.00
Sept. 27.	Trainor Bros., material and labor	374	450.00
Sept. 27.	Trainor Bros., material and labor	375	391.50
Sept. 30.	De Lancey & Cooke, material and labor	376	214.45
Sept. 9.	A. G. Kinslow, putting in water pipes	377	80.00
Nov. 4.	Trainor Bros., material and labor	542	630.00
Oct. 29.	Trainor Bros., material and labor	543	126.50
Oct. 29.	Trainor Bros., material and labor	544	8.00
Nov. 4.	Chas. R. Aldrich, architect's fees	545	18.13
Oct. 8.	Union Railway Storage Co., sewer pipe and tile	546	222.20
Aug. 5.	Reichard & Pattee, steam appliances	547	128.00
Oct. 29.	Trainor Bros., material and labor	548	305.00
Nov. 4.	C. R. Aldrich, architect's fees	549	59.50
Nov. 4.	C. R. Aldrich, architect's fees	550	66.32
Sept. 27.	Champion Blower and Forge Co., machinery	551	91.50
Oct. 7.	Nichols & Dean, tools and machinery	552	52.39
Oct. 7.	Twin City Lime and Cement Co., sewer pipe	553	14.40
Oct. 24.	W. H. Gruenhagen, equipment	554	100.55
Oct. 7.	Janney, Semple & Co., equipment (anvils)	555	49.50
Nov. 25.	James Boevar, labor	690	20.00
Oct. 29.	J. A. Vye, freight on sewer pipe	691	25.02
Nov. 27.	Trainor Bros., material and labor	692	70.00
Nov. 27.	Trainor Bros., material and labor	693	270.00
Nov. 27.	Chas. R. Aldrich, architect's fees	694	31.50
Nov. 26.	Michigan Cedar Co., cedar posts	695	63.21
Nov. 29.	Lund & Hole, laying sewer pipe	696	213.03
Oct. 30.	Brooks Bros., lumber	697	1.32
Nov. 28.	Brooks Bros., lumber	698	12.00
Oct. 25.	Union Railway Storage Co., tile	699	1.32
Oct. 31.	Chas. Peterson, labor filling	700	4.50
Dec. 31.	J. A. Vye, freight and transportation	827	5.56
Dec. 28.	Brooks Bros., lumber	828	61.75
Dec. 9.	R. R. Howell & Co., machinery (equipment)	829	39.10
Dec. 1.	W. K. Morison & Co., equipment	830	19.09
Dec. 3.	Page Woven Wire Fence Co., galvanized fencing	831	98.25
Dec. 24.	W. H. Gruenhagen, equipment	832	19.44
1896.			
Jan. 27.	Brooks Bros., lumber	967	9.66
Feb. 17.	Franklin Bumer, live stock	1183	14.00
Mar. 2.	Leslie Parlin, live stock	1184	15.00
Mar. 24.	New England Furniture Co., equipment	1185	7.90
Feb. 17.	J. A. Vye, stock	1186	7.50

1896.		No. Voucher.	Amount.
Feb. 26.	Brooks Bros., lumber.....	1187	25.79
Apr. 27.	J. M. Drew, equipment.....	1294	12.50
Apr. 27.	J. A. Hogan, equipment.....	1295	9.00
Apr. 27.	C. H. Cannon, equipment.....	1296	32.00
Apr. 5.	Page Woven Wire Fence Co., wire fencing	1577	86.34
Apr. 28.	Brooks Bros., lumber.....	1578	31.29
May 20.	Michigan Cedar Co., cedar posts.....	1579	10.84
			<hr/> \$7,000.00 <hr/>

Campus Improvement.

1895.		
Aug. 1.	Balance in treasury Aug. 1, 1895.....	\$1,895.40

DISBURSEMENTS.

1895.		No. Voucher.	Amount.
July 30.	Pay roll, men and teams filling and grading	1	\$1,895.40

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1899-1900

ELEVENTH BIENNIAL REPORT

[No. 19 IN SERIES.]

OF THE

THE LIBRARY
OF THE
UNIVERSITY OF ILLINOIS

BOARD OF REGENTS

OF THE

UNIVERSITY OF MINNESOTA

TO THE GOVERNOR,

FOR THE

FISCAL YEARS 1899 AND 1900, ENDING JULY 31ST.

*Transmitted to the Legislature at the Thirty-first (Eleventh
Biennial) Session, 1901.*

ST. PAUL, MINN.:
THE PIONEER PRESS COMPANY
STATE PRINTERS.
1900.

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1900.

ADMINISTRATIVE OFFICERS.

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FREDERICK J. WULLING, Ph. G., Dean of College of Pharmacy.

FREDERICK D. TUCKER, Principal of the School of Agriculture.

THE UNIVERSITY OF MINNESOTA,
OFFICE OF THE BOARD OF REGENTS,
Dec. 11, 1900. }

To His Excellency, John Lind, Governor of Minnesota:

Sir: I have the honor, on the part of the board of regents, to herewith present the eleventh biennial report of the board of regents of the University of Minnesota for the two years ending July 31, 1900.

Your obedient servant,

J. S. PILLSBURY,
President of Board of Regents.

ELEVENTH BIENNIAL REPORT
OF THE
BOARD OF REGENTS
OF THE
UNIVERSITY OF MINNESOTA.

Two years more have swept by, and we return to the pleasant duty of reporting to you, and through you to the legislature, a statement of the finances of the University of Minnesota, a list of its professors and instructors, the dispositions made of the money appropriated two years ago, and a summary of its urgent and necessary needs. It is the same old story of ever-increasing attendance, greater enthusiasm for the work in every department, and new and pressing demands.

The progress made in all departments of the university during the past two years gives us abundant reasons for congratulations. It is believed that never in the history of the university has there been such general approval in its course and such satisfaction with its work as at present, under the able management of President Northrop and his associates.

Prosperity is not usually a drawback; yet so constant, so unexpected and so pronounced is the increase in attendance at the university that the board finds itself compelled at each session of the legislature to make requests which it seemed, at the preceding session, would arise only in the distant future, if at all. It is the duty, however, of the board to lay before you the true condition of the institution, to explain its needs, and to point out what is necessary for its welfare.

That being done, the board feels that it is left to the legislature to say how far their hopes may be fulfilled, and how far the actual wants of the institution shall be provided for. The board believes that the legislature will continue to be as liberal as the finances of the state and its duty to other institutions will allow.

RECEIPTS.

The following statement shows the current expense receipts and disbursements for the fiscal year ending July 31, 1899:

Balance on hand Aug. 1, 1898.....		\$54,219.21
Interest on land contracts	\$28,209.69	
Interest on university bonds	23,130.00	
Interest on village bonds	908.28	
Interest on stumpage drafts	107.73	
Interest on bank deposits	3,073.39	
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Total interest	\$55,429.09	
U. S. government, Hatch bill.....	15,000.00	
U. S. government, Morrill bill.....	25,000.00	
23-100 mill revenue tax.....	129,335.48	
Minnetonka fruit farm, sale of lots.....	7,231.62	
Insurance companies, loss on laboratory medical science	84.82	
The experiment station, sales of farm products.....	8,193.16	
The school of agriculture, sales and fees.....	7,113.92	
Dental infirmary, receipts.....	1,500.00	
Miscellaneous receipts, collected by accountant.....	1,486.97	
University fees	90,879.79	
Appropriation for deficiency.....	10,000.00	
Geological and natural history survey, return of amount borrowed	22,525.96	
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		373,780.81
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Total		\$428,000.02

DISBURSEMENTS.

The disbursements for current expenses for the fiscal year ending July 31, 1899, were as follows:

For salaries of officers.....	\$190,041.54
For wages of employes.....	39,495.18
For fuel and lights.....	12,752.15
For freight and express.....	1,539.10
For postage	1,516.08
For library	5,928.91
For stationery and printing.....	5,037.78
For furniture and fixtures.....	2,201.88
For scientific apparatus and instruments.....	6,559.59
For employes (not on pay roll).....	5,807.63
For equipment of buildings.....	510.02
For live stock	2,341.23
For tools, implements and machinery.....	1,805.39
For feed	3,661.23
For seeds and plants.....	197.19
For supplies for instruction and illustration.....	14,429.75
For repairs	2,675.45
For traveling expenses	1,882.45
For petty supplies	4,515.28
For taxes, rents, advertisements.....	1,394.95
For publications	3,150.05
For contingent expenses	548.17
<hr/>	
	\$307,991.00

UNIVERSITY BOARD OF REGENTS.

7

RECEIPTS.

The following statement shows the current expense receipts and disbursements for the fiscal year ending July 31, 1900.

Balance on hand Aug. 1, 1899.....		\$116,821.73
Interest on land contracts	\$31,180.64	
Interest on university bonds	26,125.00	
Interest on village bonds	576.66	
Interest on bank deposits	2,948.08	
Total interest	\$60,830.38	
United States government, Hatch bill	15,000.00	
United States government, Morrill bill.....	25,000.00	
23-100 mill revenue tax.....	135,628.25	
Minnetonka fruit farm, sales.....	1,014.17	
Experiment station, sales.....	6,665.86	
School of agriculture, sales and fees.....	6,078.43	
Miscellaneous receipts	980.33	
University fees	97,644.93	
Dental infirmary receipts.....	3,000.00	
		<u>351,842.35</u>
Total		\$468,664.08

DISBURSEMENTS.

The disbursements for current expenses for the fiscal year ending July 31, 1900, were as follows:

For salaries of officers.....	\$209,838.82
For wages of employes.....	48,845.88
For fuel and lights.....	18,373.80
For freight and express.....	1,858.50
For postage	1,606.63
For library	5,897.48
For stationery and printing.....	10,304.36
For furniture and fixtures.....	5,044.44
For scientific apparatus and instruments.....	6,438.25
For employes (not on pay roll).....	8,663.37
For building	322.99
For equipment of buildings.....	1,627.35
For live stock	4,348.98
For tools, implements and machinery.....	2,820.28
For feed	4,235.88
For seeds and plants.....	373.10
For supplies for instruction and illustration.....	20,932.95
For repairs	5,444.75
For traveling expenses	1,164.19
For petty supplies	4,411.82
For taxes, rents and advertisements.....	1,986.02
For publications	2,383.07
For contingent expenses	2,846.51
For museum	425.00
	<u>370,194.42</u>

ELEVENTH BIENNIAL REPORT

GENERAL UNIVERSITY.

1899—Disbursements	\$41,363.86
1900—Disbursements	53,918.86

COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

1899—Receipts	\$15,960.94
1899—Disbursements	96,826.76
1900—Receipts	19,794.24
1900—Disbursements	102,713.58

COLLEGE OF ENGINEERING.

1899—Receipts	\$4,408.28
1899—Disbursements	20,106.91
1900—Receipts	3,292.16
1900—Disbursements	23,919.25

SCHOOL OF MINES.

1899—Receipts	\$1,410.90
1899—Disbursements (current expenses).....	4,070.28
(Special)	5,000.00
(Special)	2,400.00
1900—Receipts	1,241.51
1900—Disbursements	6,214.28
(Special)	7,400.00

COLLEGE OF LAW.

1899—Receipts	\$24,887.38
1899—Disbursements	16,892.69
1900—Receipts	24,381.07
1900—Disbursements	18,919.88

COLLEGE OF MEDICINE AND SURGERY.

1899—Receipts	\$25,297.20
1899—Disbursements	37,714.79
1900—Receipts	28,459.52
1900—Disbursements	42,466.12

COLLEGE OF HOMEOPATHIC MEDICINE AND SURGERY.

1899—Receipts	\$2,822.11
1899—Disbursements	1,907.90
1900—Receipts	2,075.78
1900—Disbursements	2,556.54

COLLEGE OF DENTISTRY.

1899—Receipts	\$11,308.66
1899—Disbursements	9,832.19
1900—Receipts	12,677.52
1900—Disbursements	10,550.31

COLLEGE OF PHARMACY.

1899—Receipts	\$4,320.80
1899—Disbursements	4,538.54
1900—Receipts	4,554.60
1900—Disbursements	5,262.30

THE EXPERIMENT STATION.

1899—Receipts	\$8,193.16
1899—Disbursements	33,890.00
1900—Receipts	6,665.86
1900—Disbursements	45,263.32

THE SCHOOL OF AGRICULTURE.

1899—Receipts	\$7,113.92
1899—Disbursements	36,091.81
1900—Receipts	6,076.43
1900—Disbursements	44,310.94

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- GEORGE M. COON, M. D., Clinical Instructor in Genito-Urinary Diseases.
- JAMES T. CHRISTISON, M. D., Clinical Instructor in Diseases of Children.
- L. A. NIPPERT, M. D., Clinical Instructor in Medicine.

J. L. ROTHROCK, M. D., Clinical Instructor in Pathology.
 L. B. WILSON, M. D., Senior Demonstrator of Pathology.
 GEORGE D. HEAD, B. S., M. D., Instructor in Pathology and Clinical Microscopy.
 H. C. CAREL, B. S., Assistant Professor of Chemistry.
 WINFIELD S. NICKERSON, Sc. D., Assistant Professor of Histology.
 M. RUSSELL WILCOX, M. D., Demonstrator in Physiology.
 J. WARREN LITTLE, M. D., Clinical Instructor in Surgery.
 GEO. SENKLER, M. D., Clinical Instructor in Physical Diagnosis.
 A. W. DUNNING, M. D., Clinical Instructor in Nervous and Mental Diseases.
 HALDOR SNEVE, M. D., Lecturer in Mechano-Therapy.
 R. E. CUTTS, B. S., M. D., Clinical Instructor in Obstetrics.
 MARGARET L. NICKERSON, M. A., Instructor in Histology.
 H. K. READ, M. D., Demonstrator of Anatomy.
 F. A. KIEHLE, A. B., Instructor in Medical Latin.
 ELEANOR M. WILKINSON, Instructor in Dietetics.

CLINICAL AND LABORATORY ASSISTANTS.

A. E. BENJAMIN, M. D., Assistant in Gynecology.
 ANDREW HENDERSON, M. D., Assistant in Clinical Medicine.
 J. P. BARBER, M. D., Assistant in Diseases of Children.
 F. P. WRIGHT, M. D., Assistant in Surgery and Dermatology.
 A. A. LAW, M. D., Assistant in Surgery.
 A. T. MANN, M. D., Assistant in Surgery.
 F. C. DAVIS, M. D., Assistant in Surgery.
 JUDD GOODRICH, M. D., Assistant in Surgery.
 WARREN DENNIS, M. D., Assistant in Surgery.
 R. A. CAMPBELL, M. D., Assistant in Diseases of the Nose and Throat.
 CHARLES R. BALL, M. D., Assistant in Nervous and Mental Diseases.
 HARRY P. RITCHIE, Ph. B., M. D., Assistant in Gynecology.
 A. C. HEATH, M. D., Assistant in Diseases of the Nose and Throat.
 E. F. REAMER, M. D., Assistant in Ophthalmology and Otology.
 J. C. LITZENBERG, M. D., Assistant in Ophthalmology and Otology.
 J. H. BURGAN, M. D., Assistant in Dermatology.
 W. H. CONDIT, M. D., Assistant in Medicine.

UNIVERSITY SCHOLARS.

GIVING INSTRUCTION AND ASSISTING IN LABORATORIES.

In Anatomy—E. Hessel Beckman, Earl R. Hare, Henry C. Stuhr, Geo. A. Cutts.
 In Histology and Embryology—J. W. George, C. E. Guthrie, C. R. McCreery, W. B. McCreery.
 In Bacteriology and Pathology—Fred Huxley, Chelsea Pratt.
 In Dispensary—G. E. Strout, H. H. Hazeltine, Mary P. Hopkins.
 In Materia Medica—H. H. Hazeltine.
 In Physiology—L. H. Fligman.
 In Surgical Pathology—F. J. Savage, B. S. Adams, E. Hessel Beckman.

COLLEGE OF HOMEOPATHIC MEDICINE AND SURGERY.

THE FACULTY.

CYRUS NORTHROP, LL. D., President.

ALONZO P. WILLIAMSON, LL. B., M. D., Dean and Professor of Mental and Nervous Diseases and Medical Jurisprudence.

WILLIAM E. LEONARD, A. B., M. D., Professor of Materia Medica and Therapeutics.

GEORGE E. RICKER, A. B., M. D., Professor of Clinical Medicine and Physical Diagnosis.

ROBERT D. MATCHAN, M. D., THOMAS J. GRAY, M. D., Professors of Principles and Practice of Surgery.

WARREN S. BRIGGS, B. S., M. D., MARSHALL P. AUSTIN, M. D., Professors of Clinical and Orthopædic Surgery.

B. HARVEY OGDEN, A. M., M. D., Professor of Obstetrics.

EUGENE L. MANN, A. B., M. D., Professor of Diseases of Nose, Throat and Ear.

FREDERIC M. GIBSON, M. D., O. et A. Chir., Professor of Ophthalmology.

GEORGE E. CLARKE, Ph. B., M. D., Professor of Theory and Practice of Medicine.

GEORGE F. ROBERTS, M. D., EDWARD E. AUSTIN, M. D., Professors of Diseases of Women.

HARRY M. LUFKIN, M. D., Professor of Diseases of Children.

THOMAS J. GRAY, M. D., Professor of History and Methodology of Medicine.

ROBERT R. ROME, M. D., Professor of Clinical Obstetrics.

_____, Professor of Skin and Genito-Urinary Diseases.

O. K. RICHARDSON, B. S., M. D., Lecturer on Life Insurance Examination.

EDWARD M. FREEMAN, B. S., Instructor in Botany.

EDWIN H. SMITH, Dispensary Assistant.

E. A. BOOTH, Lecturer on Surgical Emergencies.

E. A. COMSTOCK, Lecturer on Clinical and Orthopædic Surgery.

Instruction in the following branches is received in common with the students of the other colleges in the department of medicine:

CHARLES A. ERDMANN, M. D., Acting Professor of Anatomy.

RICHARD O. BEARD, M. D., Professor of Physiology.

CHARLES J. BELL, A. B., Professor of Chemistry.

THOMAS G. LEE, B. S., M. D., Professor of Histology and Embryology.

F. F. WESBROOK, M. A., M. D., C. M., Professor of Bacteriology and Pathology.

THE COLLEGE OF DENTISTRY.

THE FACULTY.

CYRUS NORTHROP, LL. D., President.

WILLIAM P. DICKINSON, D. D. S., Dean and Professor of Materia Medica.
THOMAS E. WEEKS, D. D. S., Professor of Operative Dentistry and Crown
and Bridge Work.

THOMAS B. HARTZELL, M. D., D. M. D., Professor of Pathology, Thera-
peutics and Oral Surgery.

OSCAR A. WEISS, D. M. D., Professor of Prosthetic Dentistry and Ortho-
dontia.

OTHER INSTRUCTORS.

CHARLES A. ERDMANN, M. D., Professor of Anatomy.

RICHARD O. BEARD, M. D., Professor of Physiology.

CHARLES J. BELL, A. B., University of Minnesota, Professor of Chemistry.

H. C. CAREL, B. S., Assistant Professor of Chemistry.

THOMAS G. LEE, A. M., M. D., University of Minnesota. Professor of His-
tology and Embryology.

WINFIELD S. NICKERSON, Sc. D., Assistant Professor of Histology.

FRANK S. WESBROOK, M. A., M. D., C. M., Professor of Bacteriology and
Pathology.

S. M. WHITE, B. S., M. D., Assistant in Bacteriology and Pathology.

FRANK R. WRIGHT, D. D. S., M. D., Lecturer on Anæsthesia and Chief of
Anæsthetic Clinic.

ALFRED OWRE, D. M. D., M. D., C. M., Instructor in Metallurgy and Oper-
ative Dentistry.

MARY V. HARTZELL, D. M. D., Instructor in Dental Anatomy.

H. M. REID, D. D. S., Instructor in Prosthetic Dentistry.

CHARLES A. VAN DUZEE, D. D. S., Instructor in Operative Dentistry.

E. FRANKLIN HERTZ, D. M. D., Instructor in Prosthetic Dentistry.

JAMES O. WELLS, A. M., M. D., Instructor in Crown and Bridge Work.

MARGARET L. NICKERSON, M. A., Instructor in Histology.

H. K. READ, M. D., Demonstrator of Anatomy.

M. RUSSELL WILCOX, M. D., Demonstrator in Physiology.

THE COLLEGE OF PHARMACY.

THE FACULTY.

CYRUS NORTHROP, LL. D., President.

FREDERICK J. WULLING, B. S., Ph. G., Phm. D., LL. M., Dean; Professor
of Pharmacology, Pharmaceutical Chemistry and Pharmacal Jurispru-
dence.

HENRY M. BRACKEN, M. D., Professor of Materia Medica.

—————, Professor of Pharmacognosy.

CHARLES J. BELL, A. B., Professor of Chemistry (General, Medical and Analytical).

CONWAY MACMILLAN, M. A., Professor of Botany.

EDWARD M. FREEMAN, B. S., Instructor in Botany and Practical Pharmacognosy.

FRANK S. WESBROOK, M. A., M. D., C. M., Professor of Bacteriology.

GEORGE D. HEAD, B. S., M. D., Instructor in Clinical Microscopy.

RICHARD O. BEARD, M. D., Professor of Physiology.

M. RUSSELL WILCOX, Instructor of Physiology

F. A. KIEHLE, A. B., Instructor in Medical and Pharmaceutical Latin.

—————, Instructor in Mineralogy.

B. O. LEUBNER, Phm. D., Instructor in Pharmacy.

H. C. CAREL, B. S., Instructor in Chemistry.

HOBART HAZELTINE, Instructor in Materia Medica.

DEPARTMENT OF PHYSICS.

It will be recollected that in 1899 a building was erected for the accommodation of the departments of chemistry and physics. It was supposed at that time that the size of this building would be ample for these departments for the next twenty-five years. The wonderful growth of the university in all of its departments, and especially in these two departments, during the past ten years has made this building wholly inadequate for the departments. The whole building is required for the department of chemistry, and a new building must be erected for the accommodation of the department of physics.

In accordance with the recommendation made by the board of regents, the legislature, at its last session, appropriated the sum of \$25,000 for the erection of a building for the department of physics. Owing, however, to the great advance in lumber, labor and all kinds of building material, it was found that the appropriation of \$25,000 would be insufficient to construct such a building, and furnish the same with such apparatus as was absolutely required. The regents felt that they would not be justified to proceed with the erection of the building however pressing the wants of the department with the knowledge of making so large a deficiency as

would be necessary to complete the building. Consequently they deemed it wise to postpone the construction of the building until the convening of the legislature, and then ask for an appropriation of a sufficient amount to complete a building such as the department requires. The department is now occupying temporary quarters in such buildings as have any spare space for the moment, the work of the department being conducted at a very great disadvantage.

After a close estimate made by our architect, we find that an appropriation of \$50,000 will be required for a suitable building, and it should be constructed with a view to an enlargement from time to time as the demands of the department require.

We respectfully ask for an appropriation of \$50,000 for the erection of a building for the accommodation of the department of physics.

GEOLOGICAL SURVEY.

The geological survey of the state, which has been conducted and prosecuted by Prof. N. H. Winchell for the past twenty-eight years, has been completed, and the final report, comprising seven large volumes (including the atlas) has been prepared and published. Professor Winchell commenced this great work in Houston county, in the southeastern portion of the state, in 1872, and has diligently and faithfully made a thorough examination of every county in the state, and we are glad to say, in justice to him, that the work has been done economically, and on comparison with the cost and with the area of the state, in less time than similar work has been done in Wisconsin, Illinois, Ohio and New York, and that the character of his work is fully equal to that done in other states.

It was through the geological survey that the existence of the Missabe Iron Range was pointed out, and to the survey is due the discovery of the large deposits of ore on that range, of which the direct financial returns to the state treasury have been greater than the entire cost of the survey since its commencement. The work is also otherwise of great value and interest to the people of our state and country. It shows the thorough competency of Professor Winchell, and his great ability as one of the foremost geologists of our country.

While we report hereby that the geological survey is completed, the board of regents recognize the fact that there are various

economic resources that have not been examined, and that more detail might be brought out in the northern portion of the state. Considering the means in our control, however, and the requirements of the law under which the survey is instituted and carried on, including zoölogy and botany, the board of regents have decided to discontinue geological investigations with the publication of the final report alluded to.

The geological and natural history part of the survey will be prosecuted to completion under the direction of Professor McMillan and Professor Nachtrieb, respectively.

BOTANICAL DEPARTMENT.

The work of the botanical division of the geological and natural history survey has been vigorously prosecuted, under the direction of Professor McMillan. During the two past years more than 14,500 specimens of plants have been added to the herbarium. This number is exclusive of the collections made by the field staff. During 1900 sixty-three new cases have been added, and 50,000 mounted specimens incorporated during the summer.

Through the exchange system 42,000 specimens have been received. Professor McMillan has written and published the "Minnesota Plant Life,"—a most valuable work on botany. This work has been distributed in every county in the state, to the high schools, graded schools and district schools, and to many interested persons. The edition of 10,000 volumes which was published has been exhausted. So great has been the demand for this book that a second edition is now urgently called for.

In addition Professor McMillan has published three parts of "Botanical Studies," comprising 468 octavo pages, with thirty-one plates. During the summer of 1899 field work was prosecuted, at Grand Marais, by the state botanist and his assistants, and in Houston county and the Minnesota valley. During the summer of 1900 field work has been carried on by the state botanist in Polk county, in Red River Valley, and along the north shore of Lake Superior; also, in Cass and Red Lake counties; full reports of which will appear in the publication of reports.

During the past two years 167 varieties of plants, new to the State of Minnesota, have been discovered and reported by the botanical survey.

The material now belonging to the botanical survey and de-

partment of botany is richly worth \$100,000. It is the finest botanical establishment in America, and fully equal to any collection of its kind in the world. After the years of work in making this magnificent collection, it seems that a suitable fireproof building should be provided for this herbarium and for the accommodation of the large and increasing classes which are being taught under such great disadvantage for the want of sufficient room.

We respectfully ask an appropriation of \$75,000 for the erection of a building and furnishing apparatus in accordance with the estimate made by the architect.

ZOOLOGICAL SURVEY.

The zoological work of the natural history survey for the past two seasons has been carried on mainly in the southern part of the state, under the direction of Professor Nachtrieb. Dr. Roberts made a thorough study of the Franklin rosy gull, in the Lake Heron region. The main results of this work have been made public in "The Auk." Important data on the habits of a number of other birds, and the limits of the western and northern avifaunæ of the state have been gained, and will be embodied in the final report on the birds of the state. Field photography has been used in connection with this work with gratifying success.

The work upon the fishes of the state is well under way. The houseboat, "Megalops," built in 1899, proved particularly satisfactory. Our experience with this houseboat has more than convinced us of the necessity of a zoological station for some of the most important work of the survey. Unfortunately, the want of room for storage and the proper preparation of material at the university has placed a low limit to the collection of specimens.

The museum specimens, so far as possible, have been cleaned and relabelled. The altogether too small and unsafe quarters make a creditable display of the material on hand impossible, and are responsible for the loss of many valuable donations. The following donations have been received and entered upon the record:

From Mr. John C. Brown, about 150 specimens of fishes, reptiles and amphibia, from the Pacific Coast.

From E. L. Brown, a specimen of long-tailed jaeger, from the northern part of the state.

From A. A. Collins, a fine specimen of a monkey, from the Philippine Islands.

From L. E. Griffin, two ducks and several birds' nests and eggs from the Philippine Islands.

SCHOOL OF MINES.

At no time in the history of our country has the mining interest so engaged the attention of our people as at present. The public has become so deeply interested that it has demanded special, practical and technical information concerning the ore deposits and methods of working. This industry was brought to the attention of congress during the last two sessions, and bills for appropriations to mining schools have been presented and favorably considered. The provisions of the bill now before congress appropriates annually \$15,000 (with an increase of \$1,000 annually) for the support of schools of mines in every state where mineral deposits are found. No part of this money, however, can be used for building purposes. It will at once be seen that the development of the mining interests of this country is through the mining schools. Enormous developments have been made recently in this state in mining interests.

The production of iron ore in Minnesota now exceeds that of Michigan and Wisconsin combined. Our ore is placed among the best in the world. The output for the current year is worth about \$55,000,000. The output in 1897 amounted to only \$18,000,000. The assessed valuation of our iron mine lands for taxation is now \$8,500,000, yielding about \$200,000 in revenue to the state treasury.

The mining school of the university has now been established for some eleven years, and the work has been successfully conducted by Professor Appleby and associates, a most excellent and competent person to be at the head of this department. The progress of the school has been much handicapped for want of a suitable building to accommodate the department. It has been located in Pillsbury hall, a place illy adapted, and never intended for conducting the work of this department. There are no lecture rooms. Rooms for conducting the class exercises can only be had when they are not used by the departments of botany, biology, geology and mineralogy, for which the building was erected. Moreover these rooms, owing to the crowded classes in the school of mines, are not sufficient to accommodate all classes. One class is obliged to meet in the chemical building. This department is more heavily taxed this year than ever before, owing to the increase of attendance.

The work which is now carried on constantly menaces the safety of Pillsbury Hall. The increase in number of students this

year has compelled the erection of four large furnaces. This increases the danger from fire to the departments of geology, zoology, botany and biology, which is all wrong.

The time has now come when this department must have an independent, fireproof building. With the great mining interest of our state, which is rapidly developing, and second only to that of agriculture, the university must furnish such facilities as are actually demanded. The estimated cost of the building required, with equipments, is \$47,500, for which we most respectfully ask your honorable body.

MECHANIC ARTS.

An appropriation of \$20,000 was granted by the last legislature for the erection of a wing for a mechanic arts building. As soon as this appropriation became available, proposals were invited for the construction of this wing, in accordance with the plans and specifications furnished by Charles R. Aldrich.

At the same time proposals were invited for the alteration and changing over of the chemical and physical laboratory building, so as to provide adequate room for the department of chemistry, the whole building being required for this purpose. An appropriation of \$20,000 was made to cover this improvement.

It was found, however, from the great advance made in the price of lumber and building materials and labor since the appropriation was made, that the amount would not be sufficient to cover the estimated expense of the change. Owing to the pressing necessity, however, of having the building ready for the opening of the autumn term in September, the regents felt justified, although much against the policy of the board, in making an expenditure of \$8,000 beyond the appropriation for the completion of the building.

At this writing the building is occupied by the department of chemistry, and will be found sufficient to accommodate this department probably for the next fifteen years.

Following are the bids received for making the change:

CONSTRUCTION OF MECHANIC ARTS BUILDING.

	Slate Roof.	Cheap Roof.	Stone Coarse.
C. C. Johnson.....	\$16,000.00	\$15,188.00	
Lovene & Anderson..	16,390.00	15,600.00	Add \$60.00
Aug. Cederstrand...	14,500.00	13,700.00	Add 50.00
Delancy & Robinson,	13,719.00	12,900.00	\$14 200.00 pressed brick.
J. A. Nordeen.....	14,430.00	13,711.00	Add 94.00
J. & W. A. Elliott...	13,650.00	12,850.00	Add 55.00
F. G. McMillan.....	14,018.00	13,268.00	Add 41.00
Neuman & Hay.....	16,400.00	14,900.00	Add 200.00 pressed brick.
Dissette Crecken Co.	13,759.00	12,947.00	Add 40.00
F. H. Raidt.....	16,721.00	16,214.00	.....
Hennessey & Cox ...	18,119.00	.....	.....

THE ALTERATIONS IN CHEMICAL BUILDING.

J. A. Nordeen.....	\$20,794.00
F. G. McMillan,.....	16,828.00
Delancy & Robinson	17,500.85
Lovene & Anderson.....	17,610.00

BOTH BUILDINGS, CONTRACTORS USING OLD BRICK AND PAINTING
BRICK WALLS.

Lovene & Anderson.....	\$30,000.00	\$32,000.00
J. A. Nordeen.....	34,649.00	.....
Delancy & Robinson.....	30,400.00	.....
F. G. McMillan.....	29,846.00	.....

The contract for both buildings was awarded to F. G. McMillan.

PLUMBING OF THE MECHANIC ARTS BUILDING.

Bjorkman Bros. & Wortman.....	\$145.00 2-inch pipe.
G. A. Kelly.....	235.00 2-inch pipe.
H. Kelly & Co.....	98.00-\$125.00
Allan Black Co.....	165.00
J. M. Jacobson.	143.00-\$197.00

H. Kelly's bid of \$125 for 2-inch supply pipe is accepted.

HEATING THE MECHANIC ARTS BUILDING.

W. I. Gray & Co.....	\$1,038.00
Allan Black Co.....	1,048.00
T. M. Maguire.....	645.00
C. S. Wentworth.....	1,636.00
H. Kelly & Co.....	1,359.00
W. F. Porter.....	768.00
Saxton & Philips Co.....	1,049.00
Moore Heating Co.....	1,184.00
Turnstead Heating Co.....	1,046.00
Pond Hasey Co.....	770.00
Kelly & Lamb.....	999.00

All bids were rejected, and new bids were called for. The following were submitted upon a revision of the specifications:

C. S. Wentworth.....	\$1,730.00
W. I. Gray & Co.....	1,149.00
Allan Black Co.....	1,320.00
W. F. Porter Co.....	1,357.00
T. M. Maguire.....	1,098.00
H. Kelly & Co.....	1,165.00
Saxton & Philips.....	1,637.00
Turnstead Heating Co.....	1,330.00
Kelly & Lamb.....	1,360.00

The contract was awarded to T. M. Maguire, at \$1,098.

HEATING PLANT.

All buildings upon the campus are heated from one central plant, which was erected some fifteen years ago. With the new buildings which have been erected within the past ten years, including those erected the present year, the plant is found to be wholly insufficient to supply the necessary heat required to warm the recitation rooms. The boilers are old and unsafe. It is found, in order to have sufficient heating capacity, that the old boilers must be replaced with five new tubular, horizontal boilers of 150 horse-power each, a close estimate of the expense of which will be \$6,200. An appropriation to cover this amount is respectfully asked.

WATER.

Heretofore the city of Minneapolis has furnished water for the university for all purposes free of charge. Recently, however, the city passed an ordinance requiring all public buildings to have water supplied through a system of meters. In order to comply with that ordinance, the university was obliged to have a meter furnished, the cost of which was \$800. The city now demands \$150 per month for the water furnished. This charge is a great surprise to the regents. The executive committee have given the question of water supply a thorough examination, and find, for an outlay of \$3,500, two artesian wells can be sunk on the grounds, and with pumps with pressure regulators to pump the water into the system direct, that a sufficient quantity of water can be furnished to supply all the laboratories, heating apparatus, closets and for sprinkling the grounds,—in fact, a supply for all purposes,—besides saving an expense of thirty-five dollars per month, which is now being paid for drinking water. Thus, for this outlay, the expense would be saved to the university within a period of two years.

We trust your honorable body will grant an appropriation to cover this necessary improvement.

CLINICAL BUILDING.

At the last session of the legislature the sum of \$1,500 was appropriated for the erection and equipment of a clinical building. For many years this department has been carried on in an old two-story brick building, situated on the west side of the river, just across from the university. The demands on the department had taxed its facilities to the utmost, and a new building was absolutely necessary. This building has been constructed of brick, is two stories high, and is prepossessing in appearance. It was erected from plans drawn by Architect Charles W. Aldrich.

Bids were received for the erection, plumbing, heating and electric wiring. They were as follows:

ERECTION.

F. G. McMillan.....	\$9,806.00
R. McMillan & Co.....	8,989.00
E. J. Davis & Son.....	9,200.00
G. W. Brown.....	9,695.00
J. & W. A. Elliot.....	9,970.00
Pike & Cook.....	10,293.00
J. A. Nordeen.....	10,771.00
H. C. Christensen.....	11,517.00

PLUMBING.

Hobart & Willis.....	\$1,540.00
J. M. Jacobson.....	1,575.00
Allan Black Co.....	1,590.00
Shaw & Sahler.....	1,595.00
Archambo Heating Co.....	1,600.00
Worthingham & Potter.....	1,600.00
H. Kelly & Co.....	1,625.00
Rothacher & Withee.....	1,647.00
Garrett & Kelly.....	1,650.00

FOR HEATING.

Tunstead & Co.....	\$1,145.00
Allan Black Co.....	1,150.00
Kelly & Lamb.....	1,283.00
Archambo Heating Co.....	1,300.00
Moore Co.....	1,344.00
T. M. McGuire.....	1,390.00
H. Kelly & Co.....	1,565.00
Adamson	1,765.00
Porter & Co.....	1,659.00
Saxton & Philips.....	1,815.00

ELECTRIC WIRING.

Denning & Co.....	\$59.00
W. I. Gray & Co.....	91.00
Minneapolis Electric and Consolidated Co.....	110.25
Trevor Electric Co.....	115.00
T. M. McGuire.....	125.00

In each case the contract was let to the lowest bidder—for erection to F. G. McMillan & Co., for plumbing to Hobart & Willis, for heating to Tunstead & Co., and for electric wiring to Denning Electric Co. These gentlemen all performed their contracts in a workmanlike manner, using good material, and to the satisfaction of the board.

ANATOMICAL BUILDING.

There was appropriated at the last session of the legislature the sum of \$15,000 for the erection and equipment of an anatomical building. This building has been erected on the campus, just north of the medical building. It is substantially constructed of brick, and admirably adapted for the purposes of its erection. It was built after plans drawn by Architect Charles W. Aldrich.

Bids were received for the erection, heating, plumbing and elevator. They were as follows:

ERECTION.

E. J. Davis & Son.....	\$10,800.00
F. A. Wasielewski.....	10,296.00
G. W. Brown.....	10,971.00
F. S. & W. A. Elliot.....	10,850.00

HEATING.

Allan Black	\$900.00
Pond Hasey	950.00
T. M. McGuire.....	979.00
Wilkins & Co.....	995.00
Tunstead	1,020.00
Porter & Co.....	1,025.00
Moore Heating Co.....	1,150.00
H. Kelly & Co.....	1,218.00
W. S. Matheson.....	1,250.00

These bids exceeded the appropriation and all were rejected. Second bids were received as follows:

HEATING.

T. M. McGuire.....	\$829.00
Allan Black & Co.....	945.00
Moore Heating Co.....	1,048.00
W. F. Porter & Co.....	943.00

PLUMBING.

Allan Black & Co.....	\$1,060.00
T. J. Courtney & Co.....	1,030.00
Hobart & Willis.....	830.00
Garret & Kelly.....	1,012.00
H. Kelly & Co.....	1,038.00
W. W. Sykes & Co.....	1,027.00
Worthingham & Potter.....	1,045.00
Wilkins	995.00
Cody	1,000.00
Archambo Heating Co.....	585.00

ELEVATOR.

W. H. Craig & Co.....	\$870.00
Otis Elevator Co.....	875.00
Gust Lagerquist	1,360.00
S. J. Hewson Co.....	650.00

The contract in each case was let to the lowest bidder—for erection to Mr. Wasielseski, for heating to T. M. McGuire, for plumbing to Archanbo Heating Co., and for elevator to S. J. Hewson & Co. These gentlemen performed their contracts to the satisfaction of the board.

CARE AND TREATMENT OF CRIPPLED AND DEFORMED CHILDREN.

This work was entrusted to the board of regents by the provisions of chapter 289, Laws of 1897. We have earnestly endeavored to carry out the provisions of the law, and to give the children coming within its terms the benefits and advantages contemplated by it.

We have entered into a contract with the board of control of the city and county hospital in St. Paul, by the terms of which the board of control sets apart a ward in its hospital for the exclusive use of the children in our charge, and agrees to care for them as patients are cared for in first-class hospitals, including attendance of trained nurses, food, washing, bandages and medicines; in fact, everything that the children need except physicians' attendance and braces or mechanical appliances. The board of regents pays the board of control for the services above mentioned \$3.75 per week for children under twelve years of age and \$4.50 per week for children between twelve and sixteen. We have found this arrangement very satisfactory. The board of control has fitted up a separate building on its hospital grounds for the exclusive use of the children, and they have received most excellent care from Dr. Ancker, the superintendent, and all of his assistants.

The work was commenced in October, 1897. Since that date, and up to Dec. 1, 1900, eighty-nine patients have been received into the hospital and five have been treated outside, making ninety-four in all. For a full statement as to what has been accomplished in the medical and surgical treatment of these children during the past two years, reference is made to the report of Dr. A. J. Gil-

lette, surgeon in chief, which is hereto attached. Dr. Gillette receives no compensation for his services. They are entirely voluntary. He does a large amount of work for these children, and he does it in a most conscientious and careful manner. To his efforts more than to those of any other person the success of the work is due.

The law of 1897 appropriated \$10,000 for the two years ending July 31, 1899. Of this amount only \$5,859.05 was expended, leaving a surplus of \$4,140.95. The legislature of 1899 appropriated \$8,000 per annum for the years ending July 31, 1900, and July 31, 1901. The amount expended for the first of these two years is \$6,525.33, leaving a surplus of \$1,474.67. It will be seen that the expenditures for the third year of this work were more than for the first two years put together. This is due, of course, to the increased number of patients. If the legislature continues this work in the hands of the board of regents during the next two years, an appropriation of \$10,000 per annum for that period ought to be made.

Inasmuch as some of the children remain in the hospital two or three years, and most of them at least six months, we have deemed it advisable to employ a teacher, who can give them such instruction as they are capable of receiving. Miss Francis Boardman of St. Paul has been employed for this purpose, at a salary of thirty-five dollars per month. She has done excellent work among the children. She not only gives practical and useful instruction, but with the aid of a piano she does much to enable the children to pass away pleasantly what might otherwise be dreary days of confinement in the hospital.

Should the state continue this work? In reply to this question the board can only repeat what it said in its report of two years ago. In the light of two years' additional experience, we speak with much greater confidence:

“As to the future of this work, we would say that, in our judgment, it ought to be continued by the state through some agency. There are, no doubt, many hundreds of children in Minnesota suffering from various deformities, such as club feet, hip disease, spinal disease and dislocation of joints, most of which can not only be remedied, but entirely cured, under the care of a competent orthopedic surgeon, having at his command suitable hospital facilities, braces, mechanical appliances, etc. Few people appreciate what modern science has been able to accomplish in this direction. And this can be done without any considerable pain or suffering

to the child. On the contrary, the child is, in most instances, relieved from pain as soon as the treatment commences. If these children are taken while young they may be saved from the terrible misfortune of going through life cripples and hunchbacks; and instead of being helpless paupers and beggars, they may become respectable, self-supporting citizens. It is difficult to imagine a more humane or a more profitable work in which the state could engage or to which it could devote a small part of its revenue."

The work of carrying out the provisions of the law above mentioned is entirely foreign to the duties of the board of regents in the management of the university. The legislature saw fit to assign to the board the duty of inaugurating the work and carrying it on for four years. The work itself was, no doubt, regarded as an experiment, and the placing of it in our hands as a temporary arrangement. We have made an earnest effort to give it a fair trial, and to expend the money placed at our disposal economically, and solely for the purpose for which it was intended. If the legislature at its coming session shall be able to find some other agency through which the state can carry on this work, we shall be much pleased.

REPAIRS ON OLD BUILDING.

The sum of \$10,000 was appropriated by the last legislature for making the much needed repairs on what is called the main university building, which was erected in 1856.

Proposals were invited for doing this work in accordance with the plans and specifications by Architect Charles R. Aldrich.

April 28, 1899, bids for making the improvements in the main building were submitted to Mr. Chas. Aldrich, architect, to determine which is the lower bid, as the two bids submitted by F. A. McMillan and Mr. DeLancy were so different that the committee were unable to decide. Upon a careful examination of the bids referred to above, Mr. Aldrich thought that, taking everything into consideration, the bid of Mr. DeLancy was lowest. Therefore Mr. DeLancy was employed to make the improvements in the main building, at a cost of \$4,361.80.

The following are the bids for painting, kalsomining, papering and oiling floors of main building:

J. R. Wagner.....	\$900.00
J. M. Locke & Co.....	1,590.00
Wagner & Nelson.....	1,490.00
Newhouse & Skaage.....	1,549.00
Walter Babcock	1,350.00

The contract was awarded to J. R. Wagner

The work was completed to the satisfaction of the board in 1899. This much needed improvement adds to the efficiency of the work done, and contributes to the comfort and contentment of both students and professors who have class work in the old building.

STANDING APPROPRIATION FOR REPAIRS.

There are now twenty-eight buildings on the university grounds to be kept in order. These buildings are constantly in need of repairs, the expense of which has, until the past two years, been paid from the current expense fund. The last legislature made an annual appropriation of \$5,000, for two years, to meet these expenses. This sum hardly covers the expense of annual repairs which must be made.

We would most respectfully ask that an annual standing appropriation of \$8,000 be made for this object.

AGRICULTURAL SCHOOL AND STATION.

The department of agriculture, which consists of the college of agriculture, the school of agriculture and the experiment station, has continued in usefulness and popularity throughout the biennial period. Never before has its work become so prominently known and recognized as authoritative, and the board has just reason to be proud of the leading position it has taken. Farmers from all sections of the state are showing increased interest in the work of the school and station, as evidenced by the number of visitors who annually come to the farm, and the daily mail, which contains inquiries for information and advice on almost every subject pertaining to agriculture.

The school has grown from fourteen students, registered for work at the opening in October, 1888, to 409 in 1899, and 503 in 1900. This increased attendance has called for greater facilities, which have not kept pace with the required needs. Many students are therefore compelled to secure dormitory facilities away from the college campus, and the places designed for storage and museum purposes have been largely used for classroom facilities. Coeducation at the school has been a decided success from the start. The number of girls enrolled has steadily increased, there being

thirty-two the first year, fifty-three the second, sixty the third and eighty the fourth. The record of attendance, however, gratifying as it is, gives but slight idea of the value of the girls' department. Great interest in their work is shown by city as well as country families. The instructors are called upon more and more frequently to answer letters of inquiry about the curriculum, to deliver addresses upon the industrial training given here, and to write concerning it for publication.

The influence of the dairy school upon the dairy industry of Minnesota can hardly be overestimated. The graduates now number about 700, most of whom are doing valuable work in some of the 720 creameries and eighty cheese factories of the state. At the national convention of dairymen at Lincoln, Neb., in February, 1900, Minnesota won grand sweepstakes; and at the Paris Exposition the grand prize for American butter was awarded to Samuel Haugdahl, a graduate of the dairy school.

The experiment station has continued its work of investigation along lines of great importance to the farmers of the state. A new variety of corn, known as Minnesota No. 13, has been originated, and is now extensively used throughout the state. It is a hardier variety and a better yielder than the common ones. A new variety of wheat, known as Minnesota No. 163, has also been originated, and sold extensively throughout the state. It gives great promise of being a most excellent addition to the well known varieties already grown.

Work has been continued endeavoring to discover the proper remedies against the numerous insects detrimental to our common fruits. A great portion of the entomologist's time is occupied in the summer season visiting the various sections of the state afflicted with grasshoppers, chinch bugs, delivering addresses and giving advice concerning the best methods of combatting these enemies of our staple crops.

Work in investigation of human foods which has been so popular the last few years, not only with our station but with the department of agriculture, has been continued. Our three sub-experiment farms, located at Crookston, Grand Rapids, and Coteau, Lyon county, respectively, are doing valuable work for these different sections of the state, which, owing to the peculiar conditions of soil and climate, can be better carried on there than at the central farm. They are deserving of liberal support, encouragement and commendation.

During the year just closing, when the extreme drouthy season seriously hindered the growth of forage crops throughout the state, it was a question with many of the ablest farmers of the state whether or not enough forage could be secured to carry the live stock through the coming winter. Many farmers had given up in despair, and were selling their stock at ruinously low prices. It was at this time that the experiment station issued two small press bulletins, known as "Producing Fodder and Silage Corn" and "Do Not Sacrifice Your Live Stock." These bulletins were copied almost wholly by the daily press, the country press and the agricultural papers throughout the state. This timely advice was just what was needed, and was readily accepted by the farmers, who took on new hope, planted thousands of acres to summer forage just before the copious rains of July, and many hundreds of thousands of dollars were saved to the state.

The live stock industry of the state is now in a very flourishing condition, and it hardly need be said that the experiment station has been largely instrumental in bringing about this happy condition. In the recent International Live Stock Show and Exposition held at Chicago, Clay, Robinson & Co. of that city, believing that the agricultural colleges and experiment stations should make a demonstration of their work, made a generous offer of \$1,000, to be competed for by the various colleges and stations. The conditions were that each animal must be owned for at least six months by the college exhibiting it, and must have been fed and cared for by a student of the college. Minnesota, Iowa, Wisconsin and Michigan Colleges competed, Minnesota winning \$600 of the \$1,000. This included the collective prize for best five cattle, \$100, and the best collection shown of cattle, hogs and sheep, \$200. Minnesota also won \$235 in general competition, in the open classes to the world, thus showing that the Minnesota Experiment Station and School of Agriculture is fully abreast of the times.

The station has published during this period nine bulletins—three by the division of entomology, two by the chemical division, two by the agricultural division, one by the dairy division and one by the division of animal husbandry. These were issued in editions of 16,000, and distributed gratuitously to all farmers of the state who made application for them.

The appropriations made by the last legislature, of \$35,000 for the horticultural building and \$10,000 for the heating and lighting plant, have been of great value; and we now have a horticultural building which is modern in every respect, fully fitted and equipped for instructive and experimental purposes.

VETERINARY DEPARTMENT.

Poor quarters have been furnished the department of veterinary science, and the building occupied at present is poorly adapted to the purposes of the department, and is not sufficient for its requirements. This will be better understood when it is known that the present building was formerly a barn. The back wall of it is ready to tumble out, and the roof ready to fall in. To make the department what it should be, one of valuable instruction to the students, and to make provisions for experimentation, and also provide a stock amphitheatre for use in the instruction of the several stock classes, the room in the dairy building being entirely too small, would require \$30,000.

MEAT HOUSE.

The meat house now in use is not only inadequate for this new line of work, in which Minnesota is pioneer, and with which she should remain at the front, but the workroom is so small as to be unhealthy, and the facilities for work insufficient. This building is also an improvised one, formerly used for a silo. For a building to meet the requirements for this work would require an appropriation of \$7,500. The teaching in this line is most useful and very popular with the students.

DORMITORY FOR GIRLS.

When coeducation was introduced to the school of agriculture, \$20,000 was appropriated for a building for the accommodation of sixty girls. We are obliged at this time to make this dormitory answer for eighty, which puts it in an overcrowded condition. An annex could be made to the present dormitory that would accommodate forty to fifty more girls at an expense of \$12,000.

BLACKSMITH SHOP.

The blacksmith shop was erected in 1894, sufficiently large to accommodate twenty-four students in a section, and it is entirely inadequate for the present number. Every student entering has to complete blacksmithing during his first year's course. This year there are 129 students in this class. It would require an appropriation of \$3,500 to make such an extension as to care for the present needs.

CHEMICAL LABORATORY AT SCHOOL OF AGRICULTURE.

It has become imperatively necessary at the school of agriculture to have additional room for the chemical laboratory. In considering this matter the board decided that the present building used for chemical purposes could be fitted over for dormitory purposes, which at the present time are also inadequate for the demands of the students, thus doing away with the erection of a new building for dormitory purposes.

The cost of a new building for the chemical laboratory, together with equipments of the laboratory, and the alteration of the present building into a dormitory, will cost \$30,000, for which sum we ask an appropriation.

It is also found that the following additional appropriations are needed for the purposes designated:

First—Changes and equipments of dairy hall, \$3,000.

Second—Building for instruction and experimenting in swine breeding, \$5,000.

Third—Building for exhibiting and studying farm machinery, \$3,500.

For which amounts we also respectfully ask appropriations.

ADMINISTRATION BUILDING AT THE SCHOOL OF AGRICULTURE.

In the interest of greater convenience, better work, and adequate room and facilities for both the experiment station and the school of agriculture at the state farm, a main building should be erected there at the earliest practicable time. The building should contain a much larger assembly room than the present one, several large and well appointed classrooms, museum facilities, and proper quarters for the entomological department, including an insectory, ample room for the agricultural department, which sadly needs more room and better facilities; general offices, including that of the school principal; and rooms for other purposes that need not be enumerated here. The erection of such a building will vacate room in other buildings that can be used for other necessary purposes. The cost of a building that will adequately serve its purposes now and provide for a moderate growth of the school of agriculture in the future will be \$200,000.

After considering this matter the board unanimously adopted the following resolution:

Resolved, That it is the sense of the board of regents that, in addition to the university buildings that it has unqualifiedly recommended, such a building as is herewith outlined is needed, and should be built as soon as the legislature in its wisdom can feel justified in appropriating the required money.

HORTICULTURAL HALL AND PHYSICAL LABORATORY.

At the last session of the legislature there was appropriated \$35,000 for the erection and equipment of a horticultural hall and physical laboratory at the school of agriculture. This building has now been constructed after plans drawn by Architect Charles W. Aldrich. The building is substantial in every respect. It is built of brick, with stone trimmings, and occupies a sightly place among the buildings at the school of agriculture. In design and construction it is admirably adapted for the uses for which it is intended.

In May, 1899, bids for the erection, heating, plumbing and electric wiring of this building were received. They were as follows:

ERECTION.

P. W. DeLancy.....	\$24,998.00
Loren & Anderson Co.....	25,489.00
J. A. Nordeen.....	25,998.00
C. W. Brown.....	27,680.00
J. & W. A. Elliot.....	29,338.00

HEATING.

H. Kelly & Co.....	\$3,485.00
W. S. Mathieson.....	3,560.00
W. F. Porter & Co.....	3,580.00
Allan Black & Co.....	3,700.00
Pond & Hasey Co.....	4,000.00
T. M. McGuire.....	4,619.00
Archambo Heating Co.....	4,900.00
Moore Heating Co.....	5,215.00
Tun. Heating Co.....	5,425.00

PLUMBING.

Chas. Wilkins & Co.....	\$1,800.00
Hobart & Willis.....	1,990.00
Allan Black & Co.....	2,022.00
H. Kelly & Co.....	2,045.00
T. J. Courtney & Co.....	2,051.00
Garrett & Kelly.....	2,060.00
W. W. Sykes & Co.....	2,067.00

ELECTRIC WIRING.

John Trevor.....	\$311.00
T. M. McGuire.....	349.00
Minneapolis Electric and Consolidated Co.....	447.00

In each case the contract was let to the lowest bidder. It is with pleasure that I report that the work by each contractor was done to the entire satisfaction of the board.

LIBRARY.

There is no one factor in which the whole student body of the university, as well as professors and instructors, is more interested than in that of a well selected library of books adapted to their purposes. How can the students keep in touch with the progress made in literature and in art and science and inform themselves upon the great questions of the day except through the medium of the books and literature which are being published, setting forth the most advanced thought of men in the fore front of the great progress that the world is constantly making. The library, while greatly improved by the appropriation of \$12,000 made for the past two years, and for which we are very thankful, is still greatly in need of an annual appropriation of \$8,000 to satisfy its actual and necessary wants.

In our report of two years ago we drew some comparisons between the library of this university and those of other institutions of learning. We again refer to those comparisons. If we are to keep this library on a level with those of institutions with which the work done here must necessarily be thrown in strong outline, it is necessary to have funds to buy books.

We respectfully ask for an annual appropriation of \$8,000 for this purpose.

DEPARTMENT OF PHYSICAL EDUCATION FOR MEN.

The object of this department is to provide all students opportunity for exercise, to maintain and build up their health. It also provides special training to correct physical defects like round shoulders or hollow chests, and functional derangements like weak heart, lungs or stomach. Every student who uses the gymnasium is given a thorough medical examination. All special physical needs are noted and special exercises prescribed. The student is also given a gymnasium manual of personal hygiene, and a report of his examination with a prescribed course of work. Regular work is given in classes, and consists of body building exercises and various apparatus work requiring skill and nerve. Students who

are physically unfit for regular class work are instructed individually. A class for members of the faculty meets three times a week.

More than seven hundred students used the gymnasium last year. The total number of baths taken was fully 70,000. The average attendance is about four hundred. As a supplement to the regular gymnasium work, a course of lectures is given by the director on physical hygiene, embracing exercises, diet, bathing, vital organs and narcotics.

For want of funds this department has been poorly equipped. More apparatus should be furnished, so that the department can afford to provide more and better facilities to the students who desire instruction in this department.

An appropriation of \$5,000 is respectfully asked for furnishing the necessary apparatus.

The university is obliged to keep a team of horses for doing the trucking and general work about the buildings. Up to this time we have rented a barn in which to keep our horses and wagons. We cannot rent a barn longer, and are obliged to erect a suitable building.

The estimate for such a barn as is required is \$1,050, a sum which we hope will be appropriated for this purpose.

DENTAL DEPARTMENT.

It became imperatively necessary to rearrange and enlarge the dental rooms in the first and second stories of the medical building in order to accommodate the increased attendance of students, the expense of which was \$2,250, for which we ask an appropriation.

ADDITIONAL FOR CURRENT EXPENSES.

The current expense of the university increased correspondingly with the increase in attendance. The present appropriation was based on an attendance of 2,200 to 2,400. The increase since has been beyond our expectation, and now reaches 3,350 students, an increase of 1,000 students. The expense connected with this great increase of attendance has caused an increase of \$35,000 in current expenses per year.

An annual appropriation of \$35,000 is asked for current expenses. Unless this amount is appropriated a deficiency of that amount will hereafter annually arise.

GOVERNOR BARTO.

We have to announce with sorrow the sudden death of Regent A. Barto, which occurred at his home at St. Cloud in November, 1899. Governor Barto had given four years of faithful service as a regent of the university. He was always a loyal friend to the institution. No citizen had the welfare of the university more at heart than did Governor Barto.

ATTENDANCE.

The attendance for the past eighteen years is as follows:

Year.	Students.	Year.	Students.
1883	223	1892	1,374
1884	288	1893	1,620
1885	310	1894	1,828
1886	406	1895	2,171
1887	412	1896	2,467
1888	491	1897	2,647
1889	781	1898	2,890
1890	1,002	1899	2,925
1891	1,183	1900	3,236

The following is a summary of the appropriations needed:

Physics building	\$50,000
School of mines.....	47,500
Deficit for chemistry building.....	8,000
Building for department of botany.....	75,000
Heating plant	6,200
Water	3,500
Standing appropriation for repairs.....	8,000
Veterinary department	30,000
Meat house	7,500
Girls' dormitory	12,000
Blacksmith shop	3,500
Annually library (standing).....	8,000
Barn	1,050
Dental	2,250
Chemical laboratory and altering over present chemical building into dormitory rooms	30,000
Department of physical education.....	3,000
Current expense (standing).....	35,000
Changes for dairy hall.....	3,000
Building for swine breeding.....	5,000
Building for exhibiting farm machinery.....	3,500

CONCLUSION.

The leading state university of the country, the university of Michigan, was opened in 1836, with fifty-three students. It had a wonderful increase in numbers from year to year under that great master, Dr. Tappan, and took high rank with the educational institutions of the country, and has always maintained this position. In its fortieth year its numbers reached 1,534 and at that time out-ranked all the state universities of the country. It has held this lead up to the present day. There is probably no educational institution in this country, however, which has made such progress since it was opened, in 1869, with twenty-six students, as has the University of Minnesota. It has increased its numbers more rapidly even than has the Michigan university. In its thirty-first year the number of students reached over 3,000. To-day its standing in point of numbers and character of work performed is almost first in the country. There is at the present time an enrollment of 3,400 students.

The buildings more recently erected were intended to accommodate 3,500 students, a number which was thought would be the maximum likely to be reached with a population of 2,500,000 in the state. A growing university will have growing financial demands upon it for the erection of buildings and for increased current expenses, and the more rapid the growth the more urgent will be its need.

The university has within three decades advanced to the first rank among the state universities of the country. The great progress and success which it has attained during this time is its great distress of to-day. It requires more financial resources to keep pace with its pressing necessities. The money which has been appropriated for the university has been repaid manyfold already in the raising of the standard of general intelligence of the people. The university is an honor to the State of Minnesota, and should be the pride of every citizen of our state. If the state will now furnish it with sufficient money to carry forward the mighty work which it has already accomplished so successfully, it will achieve results in the new century of which its most sanguine friends have little conception.

We are all proud of the great progress which our state has made materially up to this time. The recently discovered minerals have yielded a revenue of over \$50,000,000 the present year, and yet this

industry is only in its infancy. We lead the world in the quality of our wheat grown. Our manufactured articles now reach every country on the globe. The products of the great dairy industry take the premium in the leading markets of the world.

Our population has now reached nearly two million of healthy, prosperous, contented and loyal people. The heads of these families all wish to give their children a finished education. Minnesota can well afford to grant liberal appropriations for the support of her university.

We have asked for such appropriations as are imperatively required to meet the wants of our institution. We hope these will be granted, that the noble work which is being done may not be allowed to suffer for want of money.

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LIBRARY
OF THE
UNIVERSITY OF MINNESOTA

TWELFTH BIENNIAL REPORT

[No. 23 IN SERIES.]

OF

THE BOARD OF REGENTS

OF THE

UNIVERSITY OF MINNESOTA

TO THE GOVERNOR

FOR THE

FISCAL YEARS 1901 AND 1902 ENDING JULY 31ST.

TRANSMITTED TO THE LEGISLATURE AT THE THIRTY-THIRD
(TWELFTH BIENNIAL) SESSION, 1903.

ST. PAUL, MINN.:
THE PIONEER PRESS COMPANY,
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UNIVERSITY OF MINNESOTA,
OFFICE OF THE BOARD OF REGENTS,
Minneapolis, Dec. 9, 1902.

To His Excellency Samuel R. Van Sant, Governor of Minnesota,

SIR: I have the honor, in behalf of the Board of Regents, to submit herewith the twelfth biennial report of the Board of Regents of the University of Minnesota, for the two years ending July 31, 1902.

Very respectfully, your obedient servant,
GREENLEAF CLARK,
President.

MINNESOTA UNIV. 3

TWELFTH BIENNIAL REPORT

OF THE

BOARD OF REGENTS

OF THE

UNIVERSITY OF MINNESOTA.

The report of the Board of Regents of the University of Minnesota for the last biennial period differs but little from former reports in its most prominent feature, viz.: the constantly increasing and accelerated growth of the institution. It is a source of great satisfaction to the board, and solace for its labors, and ground for earnest and sincere congratulation to the state, that so many of its youth are availing themselves of its privileges and the preparation thus afforded them for more useful and influential lives. Reference to the table hereinafter contained shows the total attendance for the last three academic years, ending respectively July 31, 1900, 1901 and 1902, to be as follows: for the year ending July 31, 1900, 2,329 men and 907 women, total 3,236; for the year ending July 31, 1901, 2,417 men and 996 women, total 3,413, an increase over the last preceding year of $5\frac{1}{2}$ per cent; for the year ending July 31, 1902, 2,614 men and 1,042 women, total 3,656, an increase over the last preceding year of 7 per cent. It may be safely estimated that the attendance in the current year will be at least 5 per cent over the last preceding year, which would make the attendance for the current year 3,838. The increase in attendance from the year 1901, when the last legislative appropriations were made, to the estimated attendance for the current year is about $11\frac{1}{4}$ per cent. It is quite apparent from this statement that the duty is laid upon the management of representing to you, and through you to the legis-

lature, the need of additional means in order that the University may go on with its work and mission without serious impairment. The rapid increase in attendance necessitates more room, more laboratories, more equipment, more professors and instructors, and, in a word, more provision for its support and maintenance. If the number of the youths who present themselves at the University and the Agricultural School for their benefits still goes on increasing, which is probable, and the State desires that the youths who so present themselves shall be properly cared for and instructed, which is more than probable, then the need that increasing means be provided for the purpose is imperative. There is but little room for any attempt by the management to introduce any further economies. The greater part of the expenditures for current expenses is for salaries, and the Board is thoroughly convinced that no reduction in the scale of salaries is practicable. Indeed it is becoming more and more apparent that, if the institution is to be kept up to its present standard of strength and usefulness, there is likelihood of the necessity of an increase of salaries in some cases, to prevent the institution being deprived of its most accomplished and useful men by their call, at higher salaries, to other institutions. And in this connection it is pertinent to add that it is believed that the University of Minnesota is conducted for a less amount of money than any of the other large institutions of the country in proportion to the number of students, and for very much less than many of them. Attention is called to some comparisons with other institutions in this respect in the report of the President of the University to the Board of Regents.

The following pages will, in compliance with the law, show the administrative and executive officers, the faculty instructors and aids, the attendance in each department for the last three years, the receipts into and disbursements from the current expense account in the last two years, the expenditure of the special appropriations, and will, in obedience to law, lay before you the condition and needs of the University and its several departments.

ADMINISTRATIVE OFFICERS.

THE BOARD OF REGENTS.

	Term Expires.
The HON. GREENLEAF CLARK, M. A., St. Paul, President of the Board.	1904
CYRUS NORTHROP, LL. D., Minneapolis, The President of the University.	Ex-Officio
The HON. SAMUEL R. VAN SANT, Winona, The Governor of the State.	Ex-Officio
The HON. JOHN W. OLSEN, Albert Lea, The State Superintendent of Public Instruction.	Ex-Officio
The HON. ELMER E. ADAMS, B. A., Fergus Falls,	1903
The HON. THOMAS WILSON, St. Paul.	1903
The HON. WILLIAM M. LIGGETT, Benson,	1903
The Hon. A. E. RICE, Willmar,	1903
The HON. THEODORE L. SCHURMEIER, St. Paul,	1904
The HON. STEPHEN MAHONEY, B. A., Minneapolis, Secretary of the Board.	1907
The HON. O. C. STRICKLER, M. D., New Ulm,	1907
The HON. JAMES T. WYMAN, Minneapolis,	1907

STANDING COMMITTEES OF THE BOARD OF REGENTS.

EXECUTIVE—Regents Clark, Mahoney, Northrop, Liggett and Wyman.

AGRICULTURE—Regents Liggett, Adams, Rice, Wyman and Schurmeier.

MEDICAL DEPARTMENT—Regents Mahoney, Strickler, Olsen, Schurmeier and Adams.

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 WALTER RAMSEY, M. D., Assistant in Medicine.
 DAVID LANDO, M. D., Assistant in Medicine.
 E. R. HARE, M. D., Prosector in Anatomy.
 W. H. CONDIT, B. S., M. D., Assistant in Materia Medica.
 L. H. FLIGMAN, M. D., Assistant in Physiology.
 S. P. REES, B. A., M. D., Assistant in Physical Diagnosis and Obstetrics.
 P. A. HOFF, M. D., Assistant in Clinical Medicine.
 HENRY L. WILLIAMS, M. D., Assistant in Medicine.
 LESTER W. DAY, M. D., Assistant in Medicine.

UNIVERSITY SCHOLARS GIVING INSTRUCTION AND ASSISTING IN LABORATORIES.

In Anatomy—J. A. Cameron, M. Field, E. Alger, W. B. McCreery.
 In Histology and Embryology—F. J. Bomberger, J. W. George, Herbert Coulter and E. E. Olander.
 In Bacteriology and Pathology—Chelsea Pratt, H. C. Arey, E. S. Judd, Ellen Fullerton, B. S.; A. G. Liedloff, W. M. Brown.
 In Surgical Pathology—J. C. McDonald.

COLLEGE OF HOMEOPATHIC MEDICINE AND SURGERY.

THE FACULTY.

CYRUS NORTHROP, LL. D., President.
 ALONZO P. WILLIAMSON, LL. B., M. D., Dean and Professor of Mental and Nervous Diseases and Medical Jurisprudence.
 WILLIAM E. LEONARD, A. B., M. D., Professor of Materia Medica and Therapeutics.
 GEORGE E. RICKER, A. B., M. D., Professor of Clinical Medicine and Physical Diagnosis.
 ROBERT D. MATCHAN, M. D., {
 A. E. COMSTOCK, M. Sc., M. D., }
 Professors of Principles and Practice of Surgery.
 WARREN S. BRIGGS, B. S., M. D., {
 MARSHALL P. AUSTIN, M. D., }
 Professors Clinical and Orthopædic Surgery.
 B. HARVEY OGDEN, A. M., M. D., Professor of Obstetrics.
 EUGENE L. MANN, A. B., M. D., Professor of Diseases of Nose, Throat and Ear.
 FREDERIC M. GIBSON, M. D., O. et. A. Chir., Professor of Ophthalmology.
 GEORGE E. CLARKE, Ph. D., M. D., Professor of Theory and Practice of Medicine.
 GEORGE F. ROBERTS, M. D., Professor of Diseases of Women.
 HARRY M. LUFKIN, M. D., Professor of Diseases of Children.
 —————, Professor of History and Methodology of Medicine.
 ROBERT R. ROME, M. D., Professor of Clinical Obstetrics.

_____, Professor of Skin and Genito-urinary Diseases.
 O. K. RICHARDSON, B. S., M. D., Lecturer on Life Insurance Examination.
 EDWARD M. FREEMAN, B. S., Instructor in Botany.
 GOTTFRIED SCHMIDT, B. S., }
 CHARLES ARTHUR DAWSON, }
 Dispensary Assistants.
 A. E. BOOTH, M. D., Lecturer on Surgical Emergencies.
 W. H. CAINE, M. D., Lecturer on Clinical and Orthopædic Surgery.

Instruction in the following branches is received in common with the students of the other colleges in the department of medicine.

CHARLES A. ERDMANN, M. D., Professor of Anatomy.
 RICHARD O. BEARD, M. D., Professor of Physiology.
 CHARLES J. BELL, A. B., Professor of Chemistry.
 THOMAS G. LEE, B. S., M. D., Professor of Histology and Embryology.
 F. F. WESBROOK, M. A., M. D., C. M., Professor of Bacteriology and Pathology.

THE COLLEGE OF DENTISTRY.

THE FACULTY.

CYRUS NORTHROP, LL. D., President.
 WILLIAM P. DICKINSON, D. D. S., Dean and Professor of Materia Medica.
 THOMAS B. HARTZELL, M. D., D. M. D., Professor of Pathology, Therapeutics and Oral Surgery.
 OSCAR A. WEISS, D. M. D., Professor of Prosthetic Dentistry and Orthodontia.
 ALFRED OWRE, D. M. D., M. D., C. M., Professor of Operative Dentistry and Metallurgy.
 CHARLES A. VAN DUZEE, D. D. S., Clinical Professor of Operative Dentistry.
 CHARLES A. ERDMANN, M. D., Professor of Anatomy.
 RICHARD O. BEARD, M. D., Professor of Physiology.
 CHARLES J. BELL, A. B., Professor of Chemistry.
 H. C. CAREL, B. S., Assistant Professor of Chemistry.
 THOMAS G. LEE, A. M., M. D., Professor of Histology and Embryology.
 WINFIELD S. NICKERSON, Sc. D., Assistant Professor of Histology.
 FRANK F. WESBROOK, M. A., M. D., C. M., Professor of Bacteriology and Pathology.
 S. M. WHITE, B. S., M. D., Assistant Professor of Bacteriology and Pathology.
 FRANK R. WRIGHT, D. D. S., M. D., Lecturer on Anæsthesia and Chief of Anæsthesia Clinic.
 MARY V. HARTZELL, D. M. D., Instructor in Comparative Dental Anatomy.
 H. M. REID, D. D. S., Instructor in Prosthetic Dentistry.
 E. FRANKLIN HERTZ, D. M. D., Instructor in Prosthetic Dentistry and Dental Anatomy.
 JAMES O. WELLS, A. M., D. M. D., Instructor in Crown and Bridge Work and Operative Technics.
 MARGARET L. NICKERSON, M. A., Instructor in Histology.
 H. K. READ, M. D., Demonstrator of Anatomy.
 M. RUSSELL WILCOX, M. D., Demonstrator in Physiology.

THE COLLEGE OF PHARMACY.

THE FACULTY.

CYRUS NORTHROP, LL. D., President.

FREDERICK JOHN WULLING, B. S., Ph. G., Phm. D., LL. M., Dean, Professor of Pharmacology, Pharmaceutical Chemistry and Pharmaceutical Jurisprudence.

HENRY MARTYN BRACKEN, M. D., Professor of Materia Medica.

_____, Professor of Pharmacognosy.

CHARLES JOHN BELL, A. B., Professor of Chemistry, General, Medical, Analytical and Organic.

CONWAY MacMILLAN, M. A., Professor of Botany.

FREDERIC K. BUTTERS, M. S., Instructor in Botany and Practical Pharmacognosy.

FRANK FAIRCHILD WESBROOK, M. A., M. D., C. M., Professor of Bacteriology.

GEORGE B. FRANKFORTER, M. A., Ph. D., Professor of Organic Chemistry (post-graduate).

GEORGE DOUGLAS HEAD, B. S., M. D., Instructor in Clinical Microscopy.

RICHARD OLDING BEARD, Professor of Physiology.

M. RUSSELL WILCOX, M. D., Instructor in Physiology.

JOHN F. FULTON, Ph. D., M. D., Professor of Hygiene.

F. A. KIEHLE, A. B., M. D., Instructor in Medical and Pharmaceutical Latin.

_____, Instructor in Mineralogy.

_____, Instructor in Pharmacy and Laboratory Assistant.

H. C. CAREL, B. S., Instructor in Chemistry.

W. H. CONDIT, M. D., Instructor in Materia Medica.

ATTENDANCE FOR PAST THREE YEARS.

	1899-1900.			1900-1901.			1901-1902.		
	Men.	Women.	Total.	Men.	Women.	Total.	Men.	Women.	Total.
College of science, literature and the arts	421	520	941	501	592	1,093	544	635	1,179
College of engineering and the mechanic arts.....	197	12	209	247	18	265	321	24	345
School of mines.....	77	.....	77	86	.....	86	109	.....	109
Department of agriculture.....	423	80	503	452	92	544	494	125	619
College of law.....	520	8	528	455	8	463	498	6	504
College of medicine and surgery.....	321	23	344	313	17	330	343	19	362
College of Homeopathic medicine and surgery.....	23	1	24	25	2	27	19	1	20
College of dentistry.....	125	.....	125	106	.....	106	107	.....	107
College of pharmacy.....	55	8	63	60	10	70	50	12	62
Summer school.....	127	262	389	*86	*204	*290	*64	*173	*237
Graduate department.....	124	53	177	128	54	182	127	49	176
Duplicates	84	60	144	42	1	43	62	2	64
Grand totals—less duplicates.....	2,329	907	3,236	2,417	996	3,413	2,614	1,042	3,656

*Less duplicates.

FINANCIAL STATEMENT.

MINNEAPOLIS, MINN., Aug. 1, 1902.

Hon. Greenleaf Clark, President of the Board of Regents.

SIR: I herewith submit the financial report of the University of Minnesota for the fiscal years commencing Aug. 1, 1900, and ending July 31, 1902.

D. W. SPRAGUE,
Accountant.

CURRENT EXPENSE.

GENERAL STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE FISCAL YEAR ENDING JULY 31, 1901.

RECEIPTS.

Balance on hand, Aug. 1, 1900.....	\$80,014.22
From Grants Made by the United States Government—	
Approved March 2, 1861, and July 2, 1862, being interest on bonds of various states in which the resulting funds are invested	\$53,185.74
United States treasurer, Hatch Fund.....	15,000.00
United States treasurer, Morrill Fund.....	25,000.00
	<hr/>
	93,185.74
From the State Treasurer—23-100 mill revenue tax.....	142,002.55
From the University—deposits made by the accountant.....	108,682.46
	<hr/>
	\$423,884.97

DISBURSEMENTS.

By salaries and bills paid as per detailed statement.....	\$393,344.60
	<hr/>
Balance in treasury July 31, 1901.....	\$30,540.37

DETAILED STATEMENT OF RECEIPTS FOR THE FISCAL YEAR ENDING JULY 31, 1901.

CURRENT EXPENSE RECEIPTS.

Balance on hand Aug. 1, 1900.....	\$80,014.22
From United States Appropriations—	
Income from Permanent Productive Fund:	
Interest on land contracts	\$23,982.59
Interest on Alabama bonds	2,145.00
Interest on Delaware bonds	3,930.00
Interest on Massachusetts bonds	2,400.00
Interest on Tennessee bonds	3,600.00
Interest on Minnesota bonds	8,540.00
Interest on Virginia bonds	6,100.00
Interest on village bonds	2,027.00
Interest on bank deposits	461.15
Total interest	<hr/>
Total interest	\$53,185.74
From United States treasurer for Experiment Station (Hatch)	15,000.00
From United States treasurer for Agricultural College (Morrill)	25,000.00
	<hr/>
	93,185.74

From State Appropriation—		
State treasurer, 23-100 mill revenue tax.....		142,002.55
From the University—		
Students' fees, farm sales and other sources:		
Students' fees, tuition, etc.....	\$90,658.03	
Experiment Station, sale of farm products.....	5,572.29	
School of Agriculture, students' fees and sales.....	6,847.19	
Minnetonka Fruit Farm, sale of lots.....	2,261.50	
Dental Infirmary receipts.....	1,200.00	
Miscellaneous items as follows:		
Telephone messages	10.73	
Adjustment of salaries.....	101.08	
Outside work by plumber.....	16.27	
Rent of Elmquist lot.....	18.00	
Books sold	113.17	
Unpaid orders	128.00	
From athletic association.....	450.00	
Locker fund	197.00	
Animals sold to State Board of Health.....	33.90	
Old boilers sold.....	939.67	
One subject sold.....	20.00	
Refund on paid bills.....	90.13	
Miscellaneous items	25.50	
		108,682.46
		<u>\$423,884.97</u>

DISBURSEMENTS BY EXPENSE LISTS.

Receipts brought forward.....		\$423,884.97
August—University payroll	\$2,627.92	
Farm payroll	4,824.62	
University bills	4,336.14	
Farm bills	3,988.80	
September—University payroll	19,576.48	
Farm payroll	4,611.81	
University bills	7,464.81	
Farm bills	4,261.41	
October—University payroll	19,906.97	
Farm payroll	5,842.27	
University bills	13,341.76	
Farm bills	2,748.77	
November—University payroll	20,601.88	
Farm payroll	5,852.97	
University bills	8,815.20	
Farm bills	2,071.02	
December—University payroll	20,507.38	
Farm payroll	5,564.92	
University bills	11,663.72	
Farm bills	3,795.93	
January—University payroll	20,894.20	
Farm payroll	6,392.27	
University bills	8,152.11	
Farm bills	7,609.59	
February—University payroll	20,573.13	
Farm payroll	5,754.98	
University bills	5,050.67	
Farm bills	2,424.46	
March—University payroll	21,048.55	
Farm payroll	5,702.36	
University bills	7,083.59	
Farm bills	1,827.02	
April—University payroll	21,007.52	
Farm payroll	4,980.68	
University bills	6,981.43	
Farm bills	1,579.66	
May—University payroll	21,185.05	
Farm payroll	4,776.12	
University bills	6,580.24	
Farm bills	1,965.02	
June—University payroll	19,824.09	
Farm payroll	4,504.07	
University bills	2,611.09	
Farm bills	741.72	

July—University payroll	3,193.82
Farm payroll	4,585.13
University bills	4,729.54
Farm bills	1,964.82
Total University payroll.....	\$210,946.99
Total Farm payroll.....	63,392.20
Total University bills.....	86,710.30
Total Farm bills.....	34,942.22
Grand total	\$395,991.71

EXPENSES PAID BY STATE AUDITOR.

Exchange on Delaware bonds.....	1.50	
Fees paid county treasurers.....	79.09	
Land collection fees.....	272.30	
	\$396,344.60	
Less amount advanced for revolving fund.....	3,000.00	\$393,344.60
Balance		\$30,540.37

CURRENT EXPENSE.

STATEMENT OF RECEIPTS AND DISBURSEMENTS, BY COLLEGES, FOR THE YEAR ENDING JULY 31, 1901.

	Receipts.	Disbursements.
General University	\$4,076.75	\$52,202.54
College of Science, Literature and the Arts.....	22,100.00	120,450.75
College of Engineering.....	6,810.00	28,674.79
College of Law.....	21,974.40	20,971.16
School of Mines.....	2,390.00	7,138.71
College of Medicine and Surgery.....	26,662.83	44,841.79
College of Homeopathic Medicine and Surgery.....	1,281.00	2,549.38
College of Dentistry.....	8,578.00	15,649.80
College of Pharmacy.....	2,390.00	5,178.37
The College of Agriculture.....	6,847.19	49,276.45
The Experiment Station.....	5,572.29	49,057.97
Totals	\$108,682.46	\$395,991.71

CURRENT EXPENSE.

SUMMARY OF DISBURSEMENTS BY DEPARTMENTS.

	Salaries.	Bills.
General University	\$23,744.77	\$28,457.77
Botany	\$4,690.00	\$4,175.37
Biology	5,185.00	911.14
Chemistry	8,715.00	10,090.92
Physics	5,187.50	1,469.99
Languages	24,230.00	51.99
English	7,870.00	122.25
Mathematics	4,370.00	6.50
Astronomy	1,810.00	11.66
Political Science	4,935.01	165.00
Geology	4,350.00	849.63
Philosophy	6,290.00	134.55
History	5,685.00	
Rhetoric	5,350.00	243.10
Pedagogy	2,930.00	74.63
Physical Science	3,572.87	776.08
Military Science	1,021.89	86.76
General Science, Literature and Art.....	4,491.63	597.28
Totals ...	\$100,683.90	\$19,766.85

Electrical Engineering	\$1,075.00	\$1,739.65
Mechanical Engineering	6,845.00	4,971.23
Civil Engineering	3,870.00	830.83
Drawing	4,100.00	109.33
General Engineering	5,130.00	3.75
Totals	\$21,020.00	\$7,654.79
College of Law.....	\$15,815.38	\$5,155.78
Anatomy	\$3,300.00	\$3,076.14
Bacteriology	4,673.66	3,074.73
Chemistry	4,520.50	1,562.87
Physiology	3,476.26	2,384.20
Histology	5,256.27	2,490.49
General Medicine and Surgery.....	7,721.25	3,305.42
Totals	\$28,947.94	\$15,893.85
Homeopathy	\$2,100.00	\$449.38
Dentistry	\$12,545.00	\$3,104.80
Pharmacy	\$3,990.00	\$1,188.37
School of Mines.....	\$2,100.00	\$5,038.71
Total University	\$210,946.99	\$86,710.30
General Station	\$7,773.17	\$6,943.95
Agriculture	7,827.28	2,891.98
Chemistry	1,325.40	520.98
Entomology	1,005.86	110.69
Horticulture	3,061.54	852.44
Animal Husbandry	5,126.46	8,839.50
Dairy Husbandry	1,300.00	.....
Veterinary	1,160.70	318.02
Totals	\$28,580.41	\$20,477.56
The School of Agriculture.....	\$18,854.65	\$5,861.35
Agriculture	1,624.69	247.51
Chemistry	2,486.93	1,466.26
Entomology	1,000.00	147.50
Horticulture	2,830.25	1,130.71
Animal Husbandry	999.96	147.03
Dairy Husbandry	5,449.99	5,152.98
Veterinary	1,565.32	311.32
Totals	\$34,811.79	\$14,464.66
Total Station and School.....	\$63,392.20	\$34,942.22
Grand totals	\$274,339.19	\$121,652.52
Total current expense.....		\$395,991.71

DISTRIBUTION OF ACCOUNTS.

	University.	Farm.
1. Salaries of officers.....	\$184,154.30	\$36,917.77
2. Wages of employes.....	26,792.69	26,474.43
	\$210,946.99	\$63,392.20
3. Fuel and lights.....	\$14,292.40	\$5,308.81
4. Freight and express.....	1,601.56	795.44
5. Postage	1,235.05	696.83
6. Library	6,861.36	982.51
7. Stationery and printing.....	4,252.44	2,411.61
8. Furniture and fixtures.....	2,834.52	286.48
9. Scientific apparatus and instruments.....	5,021.12	134.17
10. Building	613.81	.....
11. Equipment of building.....	2,059.65	84.00
12. Live stock .....	.....	5,707.55
13. Tools, implements and machinery.....	2,923.69	565.43
14. Feed	334.01	6,977.10
15. Seeds and plants.....	15.45	677.23

16. Supplies for instruction and illustration.....	23,702.96	2,469.89
17. Repairs	1,341.92	2,044.53
18. Traveling expenses	577.15	606.04
19. Petty supplies	5,206.05	2,935.94
20. Museum	133.20	30.00
21. Taxes, rents, ads.....	3,535.92	341.97
22. Publications	1,725.57	27.50
23. Contingent expenses	671.22	216.93
24. Labor	7,771.25	1,642.17
	<hr/>	<hr/>
	\$86,710.30	\$34,942.22

THE TWO STATEMENTS ABOVE COMBINED.

1. Salaries of officers.....	\$221,072.07	
2. Wages of employes.....	53,267.12	
	<hr/>	\$274,339.19
3. Fuel and lights.....	\$19,601.21	
4. Freight and express.....	2,397.00	
5. Postage	1,931.88	
6. Library	7,843.87	
7. Stationery and printing.....	6,664.05	
8. Furniture and fixtures.....	3,121.00	
9. Scientific apparatus and instruments.....	5,155.29	
10. Building	613.81	
11. Equipment of building.....	2,143.74	
12. Live stock	5,707.55	
13. Tools, implements and machinery.....	3,489.12	
14. Feed	7,311.11	
15. Seeds and plants.....	692.68	
16. Supplies for instruction and illustration.....	26,172.85	
17. Repairs	3,386.45	
18. Traveling expenses	1,183.19	
19. Petty supplies	8,141.99	
20. Museum	163.20	
21. Taxes, rents, ads.....	3,877.89	
22. Publications	1,753.07	
23. Contingent expenses	888.15	
24. Labor bills	9,413.42	
	<hr/>	121,652.52
Total current expense.....		\$395,991.71

GENERAL UNIVERSITY.

DETAILED STATEMENT OF DISBURSEMENTS—1900-1901.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Cyrus Northrop, president.....	...	\$7,500.00
William W. Folwell, librarian.....	...	500.00
Stephen Mahoney, secretary.....	...	300.00
St. Anthony Falls Bank, treasurer.....	...	250.00
E. Bird, Johnson, registrar.....	...	1,400.04
Daniel W. Sprague, accountant.....	...	1,500.00
Lettie M. Crafts, assistant librarian.....	...	1,000.00
Ina Firkins, first assistant librarian.....	...	752.50
Anna L. Guthrie, second assistant librarian.....	...	698.75
Ella A. Whitney, stenographer.....	...	550.00
Elizabeth M. Hawley, typewriter.....	...	400.00
Malcolm G. Wyer, assistant.....	...	315.00
L. May Brooks, clerk.....	...	250.00
Allen W. Guild, superintendent of grounds.....	...	900.00
E. J. Hemphill, carpenter.....	...	635.00
L. A. Tannehill, carpenter.....	...	221.25
Thomas Hickey, plumber.....	...	542.31
William H. Doty, engineer.....	...	550.00
Henry Johnson, engineer.....	...	521.15
John A. Munson, engineer and fireman.....	...	526.54
Ernest Dygert, fireman.....	...	569.23
Frank Olson, teamster.....	...	495.00
George Plowman, watchman.....	...	195.00
Annie Peterson, scrub woman.....	...	360.00

	No. Voucher.	Amount.
Bertha Mayer, scrub woman.....	...	360.00
John Kelly, night watchman.....	...	80.00
Oscar Munson, teamster.....	...	40.00
Annabelle Morrison, telephone operator.....	...	160.19
Charles O. Seger, fireman.....	...	89.14
A. W. Demars, fireman.....	...	249.33
Carl Anderson, shoveler.....	...	22.50
George Wilkinson, shoveler.....	...	125.06
Thomas Lewcock, watchman.....	...	195.00
Mamie McNevins, telephone operator.....	...	75.00
Scrub women .....	...	953.28
Extra help in library during vacation.....	...	127.50
Burt Rose, bandmaster.....	...	315.00
S. P. Southwick, shoveler.....	...	10.50
O. J. Dysert, shoveler.....	...	10.50
Minneapolis Gas Light Co., gas.....	56	.52
Indian Medical Spring Water Co., medical water.....	57	26.80
E. P. Leland, statement receipts.....	58	23.50
R. B. Thompson, lumber.....	59	3.70
Douglas & Co., linseed oil.....	60	35.05
Twin City School Supply Co., one gross erasers.....	61	5.25
The University Press, stationery.....	62	10.75
Northrup, King & Co., seeds.....	63	7.40
C. W. Meneilly, groceries.....	64	8.50
The Great Western Printing Co., printing.....	65	224.76
Kimball & Storer Co., stationery.....	66	25.00
Fred J. Scott, printing.....	67	13.25
M. Whitcomb & Co., feed.....	68	5.20
W. K. Morrison & Co., hardware.....	74	58.08
W. M. Simms, hardware.....	83	17.10
W. S. Nott Co., chair tips.....	86	9.60
C. W. Bowen, barn rent.....	96	10.00
The Minneapolis General Electric Co., electric lighting.....	104	153.93
E. Bodin, paving gutters.....	105	48.66
The Northwestern Telephone Exchange Co., rental service.....	106	28.05
D. W. Sprague, accountant, freight, express, postage and extra help	108	399.52
The Pioneer Press Co., 200 small books.....	109	30.55
Petty bills, miscellaneous supplies.....	110	2.20
Minneapolis Gas Light Co., gas.....	111	6.06
Fred J. Scott, printing.....	112	31.50
American Soap & Chemical Co., soap.....	113	35.70
W. M. Simms, hardware.....	114	26.25
Glessner & Washburn, work on furniture.....	115	14.41
John A. Schlener & Co., stationery.....	116	10.75
Edwin R. Williams, draughting supplies.....	117	3.50
R. B. Thompson, lumber.....	118	31.29
M. Whitcomb & Co., feed.....	119	7.80
Minneapolis Office & School Furniture Co., desk.....	120	22.00
The University Press, stationery.....	121	40.80
The Great Western Printing Co., printing.....	122	29.00
A. Engebretson, feed.....	130	.88
M. E. Anderson, work on bells, etc.....	133	11.75
The Northwestern Telephone Exchange Co., rental service.....	146	22.10
Gas Saving Co., rent of regulator.....	148	12.00
W. K. Morrison & Co., hardware.....	149	11.49
Twin City School Supply Co., crayons.....	150	11.25
Ozonet Co., ozonet.....	151	25.00
W. K. Morrison & Co., hardware.....	172	33.03
D. W. Sprague, accountant, freight, express, postage and extra help	206	307.73
Petty bills, miscellaneous supplies.....	201	16.02
Elmer E. Adams, attending regents' meeting.....	205	16.25
W. M. Simms, hardware.....	269	28.95
Price Bros. Printing Co., printing.....	270	7.50
Indian Medical Spring Water Co., medical water.....	271	24.38
Minneapolis Gas Light Co., gas.....	272	17.29
Fred J. Scott, printing.....	274	21.50
Northwestern Star Oil Co., oil.....	275	16.70
Leslie & McAfee, blotting paper.....	276	7.80
Pioneer Fuel Co., coal.....	277	384.62
Minneapolis Office & School Furniture Co., table.....	278	16.00
M. Whitcomb & Co., feed.....	279	20.02
A. B. Benson, work in Chemistry Building.....	280	46.62
Minneapolis Brass & Iron Manufacturing Co., bath rings.....	281	74.00
Boutell Bros, desk.....	282	13.50
W. K. Morrison & Co., hardware.....	283	13.86
W. S. Nott Co., leather.....	284	49.75
Gas Saving Co., rent of regulator.....	285	12.00

	No. Voucher.	Amount.
C. W. Bowen, rent of barn.....	286	10.00
John A. Schlener & Co., stationery.....	292	14.38
A. Engebretson, feed.....	299	2.12
Edwin R. Williams, bands.....	305	3.25
R. B. Thompson, lumber.....	307	15.87
Standard Oil Co., gasoline.....	331	3.76
Northwestern Telephone Exchange Co., rental service.....	343	50.05
City of Minneapolis Water Works Department, water.....	344	368.87
J. N. Sayer, house furnishings.....	345	10.75
Minneapolis Jewelry Manufacturing Co., electric clock.....	358	30.00
Pioneer Fuel Co., coal.....	364	4,853.48
Indian Medical Spring Water Co., medical water.....	365	35.19
A. H. Hurd, horseshoeing.....	372	7.15
Margaret B. Bowen, rent of barn.....	373	5.00
Eustis Brothers, repair clock.....	375	5.00
Littlefield & Gerck, ventilation work.....	376	31.78
D. W. Sprague, accountant, freight, express, postage and extra help	381	341.12
Petty bills, miscellaneous supplies.....	382	3.08
Oscar Abramson, work on Chemical Building.....	383	21.42
Minneapolis Gas Light Co., gas.....	450	32.24
A. B. Benson, labor.....	451	63.00
Indian Medical Spring Water Co., medical water.....	452	25.93
Gas Saving Co., rent of regulator.....	453	12.00
Lucas Bros., iron boxes.....	454	13.75
Pioneer Fuel Co., coal.....	455	1,178.36
Leslie & McAfee, paper.....	456	17.86
Twin City School Supply Co., crayons.....	457	7.50
Smith & Wyman, storm sash.....	458	7.00
Northwestern Compo Board Co., blackboards.....	459	9.60
Edwin R. Williams, rubber bands.....	460	3.25
Minneapolis Office & School Furniture Co., desk and table.....	461	17.50
The University Book Store, stationery.....	462	10.92
Lyman-Elieel Drug Co., drugs.....	464	1.50
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	476	62.87
R. B. Thompson, lumber.....	491	1.88
W. M. Simms, hardware.....	503	10.37
W. K. Morrison & Co., hardware.....	508	32.59
W. S. Nott Co., belting.....	510	6.60
M. Whitcomb & Co., feed.....	516	20.66
The Great Western Stationery Co., stationery.....	517	140.80
Fred J. Scott, printing.....	520	63.00
American Soap & Chemical Co., soap.....	522	34.65
The Northwestern Telephone Exchange Co., rental service.....	523	51.85
The University Press, stationery.....	724	113.29
John A. Schlener & Co., pencils, etc.....	528	5.49
Minneapolis General Electric Co., electric lighting.....	551	232.87
Petty bills, miscellaneous supplies.....	562	4.90
A. E. Rice, hotel expenses, regents' meeting.....	567	14.00
D. W. Sprague, accountant, freight, express, postage and extra help	568	531.69
C. A. Tullar, attendance regents' meeting.....	570	50.65
Minneapolis General Electric Co., electric lighting.....	571	144.02
F. G. McMillan, extra cost enlarging Arts Building.....	572	585.11
The Great Western Printing Co., stationery.....	633	17.00
Price Bros. Printing Co., stationery.....	634	7.50
Leslie & McAfee, paper.....	635	132.40
Association of American Agricultural Colleges & Experimental Stations, membership fees.....	636	10.00
James W. Day, ice.....	637	40.86
Margaret B. Bowen, rent of barn.....	638	5.00
Wm. E. Walling, rubber bands.....	639	10.00
American Linen Supply Co., towels.....	640	133.07
Carl Schlenker, services in chapel.....	641	75.00
Fred J. Scott, printing.....	668	6.25
The University Press, printing.....	674	45.60
John Cates, fifteen days' work.....	709	22.50
Pioneer Fuel Co., coal.....	711	1,587.07
Margaret Bowen, rent of barn.....	720	5.00
D. W. Sprague, accountant, freight, express, postage and extra help	721	353.97
Glessner & Washburn, perforated seats.....	723	3.15
Scanlon-Gipson Lumber Co., lumber.....	724	27.22
W. M. Simms, hardware.....	726	8.06
Enterprise Machine Co., work on armory heating plant.....	727	11.70
Incandescent Gas Light Co., burners and mantels.....	728	6.20
Larmar Manufacturing Co., two doors.....	729	6.00
The Minneapolis General Electric Co., electric lighting.....	730	95.50
Indian Medical Spring Water Co., medical water.....	732	28.45

	No. Voucher.	Amount.
W. S. Nott Co., steam hose.....	733	63.75
W. S. Nott Co., boiler compound.....	734	40.80
M. Whitcomb & Co., feed.....	735	43.42
Leslie & McAfee, paper.....	736	57.20
Leslie & McAfee, paper.....	737	51.92
W. K. Morrison & Co., hardware.....	738	29.50
The Plumbing & Steamfitting Supplies Co., plumbing supplies..	739	9.29
Elmer E. Adams, expense regents' meeting.....	742	15.60
Fairbanks, Morse & Co., truck.....	743	6.00
Northwestern Telephone Exchange Co., rental service.....	744	50.85
Minneapolis Gas Light Co., gas.....	750	44.20
Gas Saving Co., rent of regulators.....	751	12.00
Metropolitan Music Co., rent of piano for chapel.....	752	20.00
The Great Western Printing Co., blanks.....	812	237.60
Mrs. Margaret B. Bowen, rent of barn.....	813	5.00
Indian Medical Spring Water Co., medical water.....	815	33.95
World's Fair Shoeing Shop, horseshoeing.....	816	46.75
Cooley Lithographing & Printing Co., 2,000 checks.....	817	94.50
Graham Paper Co., paper.....	818	119.70
Pioneer Fuel Co., coal.....	819	722.64
The John Leslie Paper Co., cloth board.....	820	10.00
G. M. Davis Regulator Co., repairing regulator.....	821	23.00
The University Press, stationery.....	822	40.60
M. Whitcomb & Co., feed.....	823	20.94
New England Furniture & Carpet Co., matting, etc.....	824	57.00
The Northwestern Telephone Exchange Co., rental service.....	825	53.53
Twin City School Supply Co., ink.....	826	10.00
John A. Schlener & Co., stationery.....	827	5.15
W. K. Morrison & Co., hardware.....	828	19.87
Electrical Engineering Co., electrical supplies.....	829	1.20
Henry Taylor, artist proof engraving.....	830	10.00
Heywood Manufacturing Co., envelopes.....	831	2.50
McClellan Paper Co., paper.....	832	9.30
Gas Saving Co., rent of regulators.....	833	12.00
W. S. Nott Co., belting.....	834	1.50
W. M. Simms, hardware.....	836	5.87
R. B. Thompson, lumber.....	840	12.19
John A. Schlener & Co., stationery.....	841	5.35
The Minnesota Daily, space for official notices.....	860	200.00
The Minnesota Magazine, advertising.....	861	50.00
The Minneapolis General Electric Co., electric current.....	863	121.83
City of Minneapolis Water Works Department, water.....	925	516.75
D. W. Sprague, accountant, freight, express, postage and extra help	936	321.61
Petty bills, miscellaneous supplies.....	938	9.40
Minneapolis Gas Light Co., gas.....	1005	45.48
Minneapolis Gas Light Co., gas.....	1006	39.00
Metropolitan Music Co., rent of piano.....	1007	8.00
John A. Schlener & Co., stationery.....	1008	9.28
Heywood Manufacturing Co., envelopes.....	1010	9.70
Gas Saving Co., regulator rent.....	1011	12.00
W. K. Morrison & Co., hardware.....	1014	18.45
Northwestern Star Oil Co., oil.....	1015	17.70
The Great Western Printing Co., stationery.....	1016	17.50
The Great Western Printing Co., bulletins.....	1017	122.55
American Soap & Chemical Co., soap.....	1018	31.50
Graham Paper Co., paper.....	1019	119.70
Indian Medical Spring Water Co., medical water.....	1020	34.50
M. Whitcomb & Co., feed.....	1021	13.20
C. C. Boyson, finishing book cases.....	1022	8.40
Margaret B. Bowen, rent of barn.....	1023	5.00
Pioneer Fuel Co., coal.....	1024	258.92
John Leslie Paper Co., paper.....	1025	169.80
The Munson Stationery Co., stationery.....	1027	3.50
W. M. Simms, hardware.....	1028	1.99
Electrical Engineering Co., electrical supplies.....	1054	7.01
Fred J. Scott, printing.....	1065	6.75
Fred J. Scott, stationery.....	1066	7.75
Darnell & Beckman, diplomas.....	1067	23.75
The University Press, stationery.....	1071	28.04
Pioneer Press Co., biennial report sheets, etc.....	1072	97.79
The Minneapolis General Electric Co., electric lights.....	1077	103.82
The Northwestern Telephone Exchange Co., rental service.....	1078	55.60
The Northwestern Telephone Exchange Co.....	.....	.....
Petty bills, miscellaneous supplies.....	1101	9.06
D. W. Sprague, accountant, freight, express, postage and extra help	1104	342.81
W. K. Morrison & Co., hardware.....	1167	53.82
Pioneer Fuel Co., coal.....	1168	444.10

	No. Voucher.	Amount.
E. P. Leland, binding book.....	1170	6.00
T. C. Trueblood, debaters.....	1171	100.00
Thompson & Lees, track in armory.....	1172	100.00
Indian Medical Spring Water Co., medical water.....	1173	35.55
Glessner & Washburn, shades.....	1174	6.90
Northwestern Compo Board Co., blackboard.....	1175	5.60
Flour City Ornamental Iron Works, window guards.....	1176	224.60
M. Whitcomb & Co., feed.....	1177	20.12
The John Leslie Paper Co., paper.....	1178	15.70
The University Press, stationery.....	1179	52.94
Gas Saving Co., rent of regulators.....	1180	12.00
Twin City School Supply Co., crayons.....	1181	11.25
American Soap & Chemical Co., soap.....	1182	34.30
W. M. Simms, hardware.....	1205	1.82
Fred J. Scott, printing.....	1231	51.90
Fred J. Scott, printing.....	1232	32.75
John A. Schlener & Co., stationery.....	1233	6.00
The Plumbing & Steamfitting Supplies Co., plumbing supplies..	1247	5.22
The Northwestern Telephone Exchange Co., rental service.....	1273	54.90
The Minneapolis Gas Light Co., gas.....	1279	31.08
Price Bros. Printing Co., printing.....	1280	8.75
Pioneer Fuel Co., coal.....	1282	8.60
Petty bills, miscellaneous supplies.....	1285	9.18
D. W. Sprague, accountant, freight, express, postage and extra help	1288	314.70
Elmer E. Adams, expense attending regent meetings.....	1291	15.60
The Minneapolis General Electric Co., electric lighting.....	1337	28.10
Minneapolis Paper Co., paper.....	1340	157.50
Indian Medical Spring Water Co., medical water.....	1341	44.00
Graham Paper Co., paper.....	1342	119.79
Pioneer Fuel Co., coal.....	1344	342.89
Minneapolis Gas Light Co., gas.....	1346	17.52
Fred J. Scott, printing.....	1347	103.00
Minneapolis Water Works, water tax.....	1348	685.05
Harrison & Smith Co., record of receipts.....	1349	12.00
The Northwestern Telephone Exchange Co., rental service.....	1350	54.45
Deere & Webber Co., buggy.....	1351	82.00
W. K. Morrison & Co., hardware.....	1352	16.01
John A. Schlener & Co., stationery.....	1353	25.68
Margaret B. Bowen, rent of barn.....	1354	10.00
Edwin R. Williams, stationery.....	1357	2.75
The Engineers' Society, advertising.....	1362	15.00
R. B. Thompson, lumber.....	1363	4.97
W. M. Simms, hardware.....	1369	2.45
Metropolitan Music Co., music.....	1370	12.23
M. Whitcomb & Co., feed.....	1386	14.18
Gopher, advertising	1388	25.00
The University Press, stationery.....	1394	129.42
The Minneapolis General Electric Co., electric lighting.....	1396	78.50
Brandow Printing Co., 1,000 blue books.....	1397	10.75
G. E. Stechert, books.....	1399	166.22
Samuel Lewis, scrub cloths.....	1412	5.00
Petty bills, miscellaneous supplies.....	1414	5.05
D. W. Sprague, accountant, freight, express, postage and extra help	1439	519.14
Gas Saving Co., rent of regulator.....	1345	12.00
Minneapolis Gas Light Co., gas.....	1492	3.96
Indian Medical Spring Water Co., medical water.....	1493	38.23
Graham Paper Co., paper.....	1494	187.82
New England Furniture & Carpet Co., stools.....	1495	7.50
Western Linseed Co., linseed oil.....	1496	30.96
R. B. Thompson, lumber.....	1497	4.63
H. L. Swain & Co., wood.....	1498	10.25
W. M. Simms, hardware.....	1499	60.12
P. Howard, painting and lettering truck.....	1500	18.75
American Soap & Chemical Co., soap.....	1501	65.80
Gas Saving Co., rent of regulators.....	1502	12.00
W. K. Morrison & Co., hardware.....	1503	19.85
The Great Western Printing Co., bulletins.....	1504	833.04
Boutell Bros., furniture.....	1506	42.00
Fidelity & Deposit Co., premium on bonds.....	1516	120.00
Minneapolis Gas Light Co., gas.....	1517	.96
B. A. Rose, band, commencement.....	1518	75.00
The University Press, stationery.....	1547	265.55
Darnell & Beckman, envelopes.....	1548	37.00
The Northwestern Telephone Exchange Co., rental service.....	1552	50.50
C. W. & M. A. Dorsett, catering.....	1560	58.00
A. W. Campbell, carriage, etc.....	1564	6.50
The Minneapolis General Electric Co., electric lighting.....	1565	68.26
M. Whitcomb & Co., feed.....	1567	42.26

	No. Voucher.	Amount.
Elmer E. Adams, attending regents' meeting.....	1568	17.71
Petty bills, miscellaneous supplies.....	1581	16.88
D. W. Sprague, accountant, freight, express, postage and extra help	1582	739.84
Andrew S. Draper, commencement address.....	1562	100.00
John A. Schlener & Co., mucilage.....	1631	6.30
The John Leslie Paper Co., paper.....	1632	55.75
Minneapolis Paper Co., parchment.....	1633	23.35
The Munson Stationery Co., mucilage.....	1634	5.00
M. Whitcomb & Co., feed.....	1635	9.02
The Pioneer Fuel Co., coal.....	1636	49.48
City of Minneapolis Water Works Department, repairs on meter	1637	5.00
The University Press, stationery.....	1638	55.38
R. B. Thompson, lumber and shingles.....	1639	41.06
Indian Medical Spring Water Co., medical water.....	1640	16.55
McClellan Paper Co., paper.....	1641	5.84
The Great Western Printing Co., diplomas, programs, etc.....	1642	318.50
Byron & Willard, printing.....	1643	23.00
Bramblett & Beygeh, half-tones, interiors.....	1644	9.46
Minneapolis Gas Light Co., gas.....	1645	1.44
Northwestern Telephone Exchange Co., rental service.....	1646	63.10
Fred J. Scott, printing.....	1647	28.00
The Tension Envelope Co., envelopes.....	1648	27.00
W. M. Simms, hardware.....	1649	10.80
East Side Green House, decorations at armory.....	1650	16.00
The Minneapolis General Electric Co., electric lighting.....	1651	38.83
W. K. Morrison & Co., hardware.....	1669	116.74
Petty bills, miscellaneous supplies.....	1699	5.24
The John Leslie Paper Co., paper.....	1735	217.31
The Great Western Printing Co., printing.....	1736	297.46
American Soap & Chemical Co., soap.....	1737	35.70
Ozonet Co., ozonet powder.....	1738	25.00
W. S. Nott Co., Diamond hose, etc.....	1753	17.40
Langdon Stone Co., stone.....	1754	10.00
R. B. Thompson, lumber.....	1755	18.30
The John Leslie Paper Co., paper.....	1757	10.50
Pioneer Fuel Co., coal.....	1761	11.26
D. W. Sprague, accountant, freight, express, postage and extra help	1763	148.98
Petty bills, miscellaneous supplies.....	1764	.60
		<hr/> \$52,202.54

THE COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Conway McMillan, professor of Botany.....	...	\$1,800.00
William W. Folwell, professor of Political Economy.....	...	2,400.00
Richard Burton, professor of English Language and Literature.	2,400.00
Frederick Klaeber, professor of Comparative and English Philology	1,600.00
Henry F. Nachtrieb, professor of Animal Biology.....	...	2,000.00
George B. Frankforter, professor of Chemistry.....	...	2,400.00
Jabez Brooks, senior professor of Greek Language and Literature	2,400.00
John F. Downey, professor of Mathematics.....	...	2,400.00
John G. Moore, professor of German Language and Literature..	2,400.00
Christopher W. Hall, professor of Geology and Mineralogy.....	...	2,400.00
Charles W. Benton, professor of French Language and Literature	2,400.00
David L. Kiehle, professor of Pedagogy.....	...	2,400.00
John S. Clark, professor of Latin Language and Literature.....	...	2,250.00
J. Corrin Hutchinson, professor of Greek Language and Literature	2,250.00
Frederick S. Jones, professor of Physics.....	...	2,400.00
Maria L. Sanford, professor of Rhetoric and Elocution.....	...	2,400.00
Willis M. West, professor of History.....	...	2,250.00
Frederick J. E. Woodbridge, professor of Philosophy.....	...	2,250.00
Francis P. Leavenworth, professor of Astronomy and director of observatory	1,800.00
John S. Carlson, professor of Scandinavian Languages and Literature	1,800.00
Joseph B. Pike, professor of Latin.....	...	1,800.00
Frank L. McVey, professor of Private Economics.....	...	1,650.00
Charles P. Sigerfoos, professor of Zoölogy.....	...	1,650.00

	No. Voucher.	Amount.
Samuel G. Smith, professor of Sociology.....	...	500.01
Charles F. Sidener, assistant professor of Chemistry.....	...	1,800.00
Charles F. McClumpha, assistant professor of English Language and Literature	1,500.00
Matilda J. C. Wilkin, assistant professor of German.....	...	1,500.00
E. Eugene McDermott, assistant professor of Rhetoric and Elo- cution	1,500.00
Frank M. Anderson, assistant professor of History.....	...	1,500.00
Edward E. Nicholson, assistant professor of Chemistry.....	...	1,500.00
John Zelleny, associate professor of Physics.....	...	1,500.00
Norman Wilde, assistant professor of Philosophy.....	...	1,350.00
Carl Schlenker, assistant professor of German.....	...	1,200.00
Albert B. White, assistant professor of History.....	...	1,200.00
Frederick E. Beckman, instructor in French and Spanish.....	...	1,200.00
Harlow S. Gale, instructor in Psychology.....	...	1,200.00
Charles P. Berkey, instructor in Mineralogy.....	...	1,200.00
Anthony Zelleny, instructor in Physics.....	...	1,000.00
John E. Granrud, instructor in Latin.....	...	1,000.00
Gilbert Ames Bliss, instructor in Mathematics.....	...	1,000.00
George N. Bauer, instructor in Mathematics.....	...	1,000.00
Josephine E. Tilden, instructor in Cryptogramic Botany.....	...	1,100.00
Emma Bertin, instructor in French.....	...	900.00
Francis Potter, instructor in English.....	...	900.00
Oscar W. Oestlund, instructor in Animal Biology.....	...	900.00
Oscar Firkins, instructor in Rhetoric.....	...	800.00
Waldemar Schulz, instructor in German.....	...	800.00
Henry A. Erickson, instructor in Physics.....	...	750.00
Frederick W. Sardeson, instructor in Paleontology.....	...	750.00
Charles A. Savage, instructor in Latin.....	...	700.00
Marco F. Liberma, instructor in French.....	...	700.00
William A. Wheeler, instructor in Botany.....	...	650.00
Harold L. Lyon, instructor in Botany.....	...	650.00
Paul M. Glasoe, instructor in Chemistry.....	...	600.00
Levi B. Pease, instructor in Chemistry.....	...	600.00
Helen A. Wilder, instructor in Rhetoric.....	...	600.00
Elizabeth F. Beach, instructor in History.....	...	735.00
David E. Cloyd, instructor in Pedagogy.....	...	500.00
Edward Sanford, instructor in Rhetoric.....	...	500.00
Marion Potter, instructor in English.....	...	500.00
Ada L. Comstock, instructor in Rhetoric.....	...	400.00
Louis C. Luhr, instructor in German.....	...	180.00
Joseph W. Beach, assistant instructor in Rhetoric.....	...	500.00
Hannah R. Sewall, assistant in Political Science.....	...	400.00
David F. Swenson, assistant in Philosophy.....	...	450.00
Frank Emmons, assistant in Chemistry.....	...	250.00
Charles Zeleny, scholar in Biology.....	...	325.00
Joseph E. Guthrie, scholar in Biology.....	...	400.00
J. Burt Miner, scholar in Philosophy.....	...	225.00
Otto Rosendahl, scholar in Botany.....	...	200.00
Frederick K. Butters, scholar in Botany.....	...	200.00
Helen E. Camp, assistant in Pedagogy.....	...	30.00
Everhart P. Harding, instructor in Chemistry.....	...	600.00
William Methley, assistant in Chemistry.....	...	535.00
Henry C. Libby, assistant in Astronomy.....	...	100.00
Fred W. Bedford, assistant in Chemistry.....	...	135.00
Raymond Benner, assistant in Chemistry.....	...	135.00
A. W. Martin, assistant in Chemistry.....	...	135.00
Francis G. Warville, assistant in Chemistry.....	...	250.00
Willard W. Dakin, instrument maker.....	...	675.00
Ella C. Ruscoe, scholar.....	...	200.00
Walter J. Allen, military instructor.....	...	249.97
Louis J. Cooke, physical director.....	...	1,500.00
Jennings C. Litzenberg, assistant.....	...	400.00
Anna Maud Butner, director.....	...	900.00
Marguerite Barbour, assistant.....	...	200.00
Alice Ray Hunt, pianist.....	...	90.00
Charles E. Daly, janitor.....	...	522.69
Jacob Knutson, janitor.....	...	540.00
Edwin A. Cuzner, janitor.....	...	900.00
Philander Folsom, janitor.....	...	540.00
Charles Lindsay, janitor.....	...	266.54
John Cates, janitor.....	...	45.00
John West, janitor.....	...	270.00
Ephraim Hoover, janitor.....	...	529.60
Edmund S. Dowling, janitor.....	...	540.00
Oscar Munson, janitor.....	...	482.87
Walter Daly, janitor.....	...	235.38
E. W. Vaughn, janitor.....	...	151.84
L. A. Tannehill, janitor.....	...	90.00

	No. Voucher.	Amount.
Elizabeth Ferick, instructor in German.....	...	120.00
Minneapolis Gas Light Co., gas.....	56	27.17
The University Press, stationery.....	62	2.40
Minneapolis Gas Light Co., chimneys and mantels.....	69	5.15
Heywood Manufacturing Co., pamphlet files.....	71	17.00
Alexander P. Anderson, weighing balance and recorder.....	92	200.00
Josephine T. Tilden, transportation charges.....	93	295.40
The University Book Store, books.....	94	7.55
G. E. Steckert, books.....	98	25.01
The McMillan Co., books.....	99	6.71
William Wesley & Son, books.....	102	8.75
D. W. Sprague, accountant, freight, express, postage and extra help	108	386.38
Petty bills, miscellaneous supplies.....	110	10.67
Minneapolis Gas Light Co., gas.....	111	35.00
Fred J. Scott, printing.....	112	2.00
W. M. Simms, hardware.....	114	15.07
John A. Schlener & Co., stationery.....	116	6.00
Edwin R. Williams, draughting supplies.....	117	1.75
The University Press, stationery.....	121	17.00
G. E. Stechert, books.....	123	62.10
The McMillan Co., books.....	124	10.90
William Wesley & Son, books.....	102	8.75
D. W. Sprague, accountant, freight, express, postage and extra help	108	386.28
Petty bills, miscellaneous supplies.....	110	10.67
Minneapolis Gas Light Co., gas.....	111	35.00
Fred J. Scott, printing.....	112	2.00
W. M. Simms, hardware.....	114	15.07
John A. Schlener & Co., stationery.....	116	6.00
Edwin R. Williams, draughting supplies.....	117	1.75
The University Press, stationery.....	121	17.00
G. E. Stechert, books.....	123	62.00
The Macmillan Co., books.....	124	10.00
Heywood Manufacturing Co., boxes.....	126	6.00
The University Book Store, books, etc.....	127	18.69
J. C. Vaughn, seeds.....	128	8.05
Boutell Bros., furniture.....	129	24.05
A. Engebretson, feed.....	130	10.95
Bausch & Lomb Optical Co., drugs.....	131	89.73
Chas. P. Berkey, lantern slides.....	132	25.00
The Minneapolis General Electric Co., electric lighting.....	154	1.29
Lyman-Elie! Drug Co., drugs.....	155	28.36
Noyes Bros. & Cutler, drugs.....	156	27.57
C. W. Meneilly, groceries.....	163	.13
Minneapolis Photo Materials Co., photo materials.....	164	56.89
W. K. Morrison & Co., hardware.....	172	8.05
Ives-Kromskop Co., lantern.....	190	75.00
Eimer & Amend, physical apparatus.....	194	40.19
Oswald Weigel, books.....	195	52.74
William Wesley & Son, books.....	197	32.10
D. W. Sprague, accountant, freight, express, postage and extra help	206	33.67
Petty bills, miscellaneous supplies.....	201	12.34
Metropolitan Music Co., piano rent.....	203	8.00
J. H. Constantine, cabinet work.....	268	42.00
Minneapolis Gas Light Co., gas.....	272	66.43
W. K. Morrison & Co., hardware.....	283	2.79
Minneapolis Electric & Construction Co., desk fan.....	287	12.00
Electric Engineering Co., electrical supplies.....	288	73.27
The University Book Store, stationery.....	290	12.25
F. J. Williman, three frames.....	291	24.00
John A. Schlener & Co., stationery.....	292	4.35
Library Bureau, cards.....	293	14.40
Eimer & Amend, physical apparatus.....	294	209.06
Elgin R. Shepard, bromides.....	295	15.00
W. C. Wyc*off, camera stand.....	296	5.50
Thomas G. Thrum, books.....	297	30.75
R. B. Thompson, lumber.....	307	9.85
Lyman-Elie! Drug Co., drugs.....	314	8.92
Minneapolis Gas Light Co., gas chimneys, etc.....	315	1.75
Minneapolis Photo Materials Co., photo supplies.....	327	15.92
Gardner-Warner Hardware Co., hardware.....	346	79.63
Wagner & Nelson, painting and finishing tables.....	347	76.65
Naraganset Machine Co., manometer, etc.....	351	140.28
Torrey Botanical Club, three volumes Memoirs.....	352	9.00
Andrew P. Lorence, table.....	353	10.70
Noyes Bros. & Cutler, drugs.....	355	208.65
R. Friedlander & Sohn, books.....	368	9.51

	No. Voucher.	Amount.
William Westey & Son, books.....	369	15.05
Conway MacMillan, expenses collecting class material.....	371	10.20
Bausch & Lomb Optical Co., physical apparatus.....	374	276.91
F. W. Wamsley, laboratory supplies.....	377	15.35
John C. Brown, biological specimens.....	378	50.80
D. W. Sprague, accountant, freight, express, postage and extra help	381	83.06
Petty bills, miscellaneous supplies.....	382	6.54
Minneapolis Gas Light Co., gas.....	450	83.85
Edwin R. Williams, draughting supplies.....	460	4.10
The University Book Store, stationery.....	462	52.54
The Twin City Projecting Co., gas and limes.....	463	8.55
Lyman-Eliel Drug Co., drugs.....	464	6.86
R. M. Chapman, lightning jars.....	465	31.80
N. W. Distilled Water Co., distilled water.....	466	5.00
Electric Machinery Co., generator.....	467	372.00
Minneapolis Photo Materials Co., photo materials.....	470	29.48
Janney, Semple, Hill & Co., hardware.....	471	1.86
Kennedy Bros., vaulting horses, etc.....	472	296.75
McClellan Paper Co., paper.....	477	18.74
Richards & Co., Limited, laboratory supplies.....	478	73.70
Conway MacMillan, books.....	480	107.85
M. E. Anderson, work on chemical laboratory.....	483	46.17
Otto Rood, drugs.....	484	8.60
Electrical Engineering Co., electrical supplies.....	489	5.16
W. M. Simms, hardware.....	503	16.26
W. K. Morrison & Co., hardware.....	508	15.04
Noyes Bros. & Cutler, drugs.....	519	43.57
L. Paulle, book cases.....	521	108.50
The University Press, stationery.....	524	2.50
C. J. Hibbard, microscope.....	526	15.00
John A. Schlener & Co., impression book.....	528	1.35
Buffalo Dental Manufacturing Co., furnaces, etc.....	529	14.62
Charles J. Chamberlain, drawings.....	536	5.00
Hermann Baker & Co., resistance wire.....	538	11.15
James G. Biddle, batteries.....	539	57.30
E. & H. T. Anthony & Co., camera.....	542	12.00
George R. Swain, lantern slides.....	549	23.49
C. W. Hall, paid for stamps, etc.....	550	8.04
Minneapolis General Electric Co., electric lighting.....	551	15.60
Minneapolis General Electric Co., electric lighting.....	552	2.26
Wm. D. Galvin, services Political Science.....	554	50.00
C. L. Whittle, diamond saw.....	555	5.25
Charles L. Smith, books.....	557	54.85
Gene Lilley, library work.....	558	13.00
Minneapolis Collector of Customs, import duties.....	559	414.71
Bausch & Lomb Optical Co., physical apparatus.....	560	58.19
John R. Barrows, botanical specimens.....	561	8.70
Petty bills, miscellaneous supplies.....	562	20.99
Gustav Fock, books.....	563	12.43
A. B. Benson, work on chemical laboratory.....	566	60.48
D. W. Sprague, accountant, freight, express, postage and extra help	568	47.16
Heywood Manufacturing Co., trays.....	569	33.00
Minneapolis General Electric Co., electric lighting.....	571	105.02
The Great Western Printing Co., stationery.....	633	13.00
James W. Day, ice.....	637	75.71
The Pioneer Press Co., binding.....	642	152.25
New England Furniture & Carpet Co., desks, chairs, etc.....	643	56.50
John H. Fouch, photo materials.....	644	29.35
Minneapolis Photo Materials Co., photo materials.....	645	39.45
C. E. Van Duzee, gas and limes.....	646	13.00
G. F. Kriessel, steel blocks.....	647	8.00
The University Book Store, prisms, etc.....	649	8.05
National Brass & Metal Co., brass.....	650	9.30
The Plumbing & Steamfitting Co., plumbing materials.....	651	11.36
The G. W. Frey Co., chandelier fixtures.....	652	65.00
W. K. Morrison & Co., hardware.....	653	7.27
Chas. T. Leonard Co., canvas ball.....	654	20.00
Central Wood Turning Co., boxes.....	655	20.00
Noyes Bros. & Cutler, drugs.....	656	253.55
David F. Swanson, telestereoscope.....	657	6.50
M. E. Anderson, electric wiring.....	658	8.60
McClellan Paper Co., paper.....	659	7.77
George B. Frankforter, sundry disbursements.....	660	6.29
G. E. Stechert, books.....	661	10.62
Electrical Engineering Co., electrical supplies.....	662	45.08
Hermann Boker & Co., resistance wire.....	663	50.44
The Minneapolis General Electric Co., electric lighting.....	664	10.10
Janney, Semple, Hill & Co., hardware.....	670	8.40

	No. Voucher.	Amount.
R. B. Thompson, lumber.....	672	7.28
Lyman-Elie! Drug Co., drugs.....	678	6.19
W. M. Simms, hardware.....	680	29.73
M. F. Patterson, dental supplies.....	685	10.00
Tele Fone Cann, shades.....	707	12.80
Geo. L. English & Co., minerals.....	708	32.10
Supply Department of Marine Biological Laboratory, biological specimens	710	114.35
Bohm & Wiedemann, physical apparatus.....	713	51.60
William Wesley & Son, books.....	714	7.68
W. W. Eggleston, sheets of New England plants.....	715	10.00
C. J. Hibbard, services manufacturing photographs, etc.....	716	100.00
Max Kaehler & Martini, chemical apparatus.....	717	3,077.83
Clayton R. Cooley, deputy collector, duties on apparatus and bottles	719	388.40
D. W. Sprague, accountant, freight, express, postage and extra help	721	134.17
The Pioneer Press Co., diplomas.....	722	40.00
Glessner & Washburn, chairs and shades.....	723	141.88
Incandescent Gas Light Co., burners, etc.....	728	10.00
The Minneapolis General Electric Co., electric lighting.....	730	18.98
Kennedy Bros., bladders and rings.....	731	14.00
Leslie & McAfee, paper.....	737	1.75
Edwin R. Williams, mimeograph.....	741	50.00
Petty bills, miscellaneous supplies.....	748	25.50
Chas. P. Sigerfoos, collecting materials for class.....	749	25.84
Minneapolis Gas Light Co., gas.....	750	89.18
Metropolitan Music Co., rent piano, armory.....	752	12.00
A. J. Kreger, work in Chemical Building.....	754	34.37
H. W. Henshaw, platinotypes.....	814	44.00
The University Press, stationery.....	822	4.75
W. K. Morrison & Co., hardware.....	828	8.57
Electrical Engineering Co., electrical supplies.....	829	2.04
Heywood Manufacturing Co., cases.....	831	10.00
The University Press, stationery.....	835	8.25
W. M. Simms, hardware.....	836	19.15
R. B. Thompson, lumber.....	840	5.04
John A. Schlener & Co., stationery.....	841	16.50
University of Chicago, stationery.....	842	5.05
Northwestern Incandescent Light Co., one portable.....	843	5.00
Edwin R. Williams, miscellaneous supplies.....	844	7.25
J. M. Holzinger, botanical supplies.....	845	6.90
Minneapolis Photo Materials Co., photo supplies.....	846	16.75
L. Paulle, show cases.....	847	56.50
Dr. Otto Kuntze, geological supplies.....	849	26.35
Geo. J. Sherer, shields.....	850	14.50
Noyes Bros. & Cutler, drugs.....	852	3.00
A. W. Townsend, tinware.....	853	10.00
Whittlesey Gas & Electric Fixture Co., gas fixtures.....	855	67.00
The University Book Store, stationery.....	859	18.18
The Minneapolis General Electric Co., electric current.....	863	7.18
Bausch & Lomb Optical Co., physical apparatus.....	865	64.38
Gene Lilley, work in botanical library.....	868	17.50
Minneapolis Photo Materials Co., photo supplies.....	869	4.65
Minneapolis Office & School Furniture Co., furniture.....	872	15.00
Metropolitan Music Co., musical supplies.....	873	37.80
Lyman-Elie! Drug Co., drugs.....	888	7.52
G. E. Stechert, books.....	900	8.79
The Macmillan Co., subscription to "Science".....	901	15.00
J. B. Colt & Co., electric lamp.....	903	49.00
T. H. Hibben & Co., B. A. charts.....	926	13.53
C. J. Hibbard, services as photographer.....	930	100.00
Morgan Import Freight & Customs Agency, sundry disbursements	933	13.00
The Minneapolis General Electric Co., electric current.....	935	8.84
D. W. Sprague, accountant, freight, express, postage and extra help	936	39.43
Lawrence E. Griffin, anatomical and embryological material....	937	50.00
Petty bills, miscellaneous supplies.....	938	40.96
Allan C. Benham, work in the English Department.....	938½	50.00
Minneapolis Gas Light Co., gas.....	1005	78.84
Minneapolis Gas Light Co., gas.....	1006	85.44
Metropolitan Music Co., rent of piano.....	1007	8.00
John A. Schlener & Co., stationery.....	1008	.90
Fairbanks, Morse & Co., scales and weights.....	1009	34.00
W. K. Morrison & Co., hardware.....	1014	1.10
Carl F. Thayer, miscellaneous supplies.....	1026	19.65
W. M. Simms, hardware.....	1028	2.26
Kennedy & Co., sporting goods.....	1029	56.70
Noyes Bros. & Cutler, drugs.....	1031	6.85

	No. Voucher.	Amount.
The Minneapolis General Electric Co., electric lights.....	1032	16.70
McIntosh Stereopticon Co., arc lamp and objective.....	1033	28.80
Minneapolis Photo Materials Co., one weight.....	1035	.50
John H. Fouch, photo material.....	1039	10.87
W. D. Galvin, services.....	1042	50.00
Noyes Bros. & Cutler, drugs.....	1047	6.00
The University Book Store, books.....	1060	3.63
Torrey Botanical Club, index cards.....	1069	8.56
Paul A. Schmitt, music.....	1070	17.00
Harold L. Lyon, travel expense.....	1076	7.23
The Minneapolis General Electric Co., electric lights.....	1077	7.32
C. J. Hibbard, service Department of Botany.....	1080	100.00
Oswald Weigel, books.....	1095	124.80
Simmel & Co., books.....	1096	6.00
C. W. Hall, miscellaneous supplies.....	1100	25.50
Petty bills, miscellaneous supplies.....	1101	12.55
E. C. Pollard, H. T. W. machine.....	1103	75.00
D. W. Sprague, accountant, freight, express, postage and extra help	1104	22.66
Frederick S. Jones, expenses Intercollegiate Conference.....	1105	7.40
Minneapolis Office & School Furniture Co., cabinets.....	1106	72.00
Central School Supply House, balance bill, maps.....	1107	35.00
W. K. Morrison & Co., hardware.....	1167	1.25
The Minneapolis General Electric Co., electric lighting.....	1169	14.05
Menzell & Jeffery, 100 stands.....	1183	100.00
Pioneer Press Co., binding, etc.....	1189	193.15
Electrical Engineering Co., electric supplies.....	1192	13.01
Paul A. Schmitt, music.....	1193	15.00
Central Wood Turning Co., bases.....	1194	12.50
Minneapolis Jewelry Manufacturing Co., clock.....	1197	5.50
Evans, Munzer, Pickering & Co., shades.....	1198	120.23
Edwin R. Williams, stationery.....	1199	3.60
Adrian Butts, sections of rods.....	1201	7.20
C. W. Hall, frames and glass.....	1202	6.30
C. W. Hall, preparing syllabus.....	1203	17.64
W. M. Simms, hardware.....	1205	3.28
The University Book Store, books and stationery.....	1217	6.47
Noyes Bros. & Cutler, drugs.....	1219	162.10
John H. Fouch, slide plates.....	1226	4.83
C. W. Meneilly, groceries.....	1228	1.40
Richards & Co., Limited, chemical apparatus.....	1230	10.00
John A. Schlener & Co., stationery.....	1233	.90
Bausch & Lomb Optical Co., physical apparatus.....	1239	24.15
Geo. L. English & Co., mineral specimens.....	1242	80.38
G. E. Stechert, books.....	1243	10.00
A. J. Dahl & Co., books.....	1248	26.90
Geo. H. Normington, salary, director of music.....	1253	50.00
The Minneapolis Gas Light Co., gas.....	1279	80.76
Petty bills, miscellaneous supplies.....	1285	15.76
Jane Kennedy, medical examinations.....	1287	50.00
D. W. Sprague, accountant, freight, express, postage and extra help	1288	105.66
Clayton R. Cooley, deputy collector, duties on importations.....	1289	466.05
The Minneapolis General Electric Co., electric lighting.....	1337	16.70
The Minneapolis General Electric Co., electric lighting.....	1338	11.89
J. A. Sandell, tin pipe.....	1339	8.10
Metropolitan Music Co., charges for piano.....	1343	16.00
Minneapolis Gas Light Co., gas.....	1346	85.56
Glessner & Washburn, shades.....	1355	16.00
Minneapolis Photo Materials Co., photo materials.....	1356	33.21
Edwin R. Williams, stationery.....	1357	6.05
O. H. Peck, photographic materials.....	1358	14.75
John H. Fouch, photographic materials.....	1359	5.13
W. M. Simms, hardware.....	1369	2.10
C. W. Meneilly, groceries.....	1371	6.01
Lyman-Eliel Drug Co., drugs.....	1372	16.79
Electrical Engineering Co., electrical supplies.....	1375	6.66
Kennedy Bros., balls and cords.....	1384	6.50
C. W. Hall, miscellaneous supplies.....	1385	14.95
Noyes Bros. & Cutler, drugs.....	1389	110.88
C. J. Hibbard, services as photographer, etc.....	1395	103.25
The Minneapolis General Electric Co., electric lighting.....	1396	5.47
Bausch & Lomb Optical Co., 134 packs.....	1407	10.93
F. S. Collins, fascicle.....	1409	5.00
Elgin R. Shepard, lantern slides.....	1410	72.50
A. C. Benham, E. B. Benham's services.....	1411	50.00
Petty bills, miscellaneous supplies.....	1414	23.56
Buchandlung Gustav Fork, books.....	1416	16.05
Geo. L. Houghton, fixtures for globe.....	1417	6.50

	No. Voucher.	Amount
David P. Jones, slides.....	1420	27.50
Miss Felicitas Mareck, clerical work.....	1438	15.00
D. W. Sprague, accountant, freight, express, postage and extra help	1439	47.87
Minneapolis Gas Light Co., gas.....	1492	78.00
W. M. Simms, hardware.....	1499	21.13
J. H. Constantine, casing windows and doors.....	1505	18.00
Boutell Bros., chair.....	1506	30.00
Bausch & Lomb Optical Co., drugs.....	1508	21.49
Minneapolis Photo Materials Co., photo materials.....	1515	24.30
The Minneapolis General Electric Co., electric lighting.....	1519	11.68
Richards & Co., Limited, barometer.....	1520	9.15
C. W. Meneilly, groceries.....	1521	17.07
W. S. Kienholz, cleaning laboratory apparatus.....	1523	8.25
F. J. Willimann, picture frames.....	1524	14.80
Board of Education, attachment for projection apparatus.....	1525	75.00
John H. Fouch, photo material.....	1526	30.00
Lyman-Elie! Drug Co., drugs.....	1527	11.20
Electrical Engineering Co., electrical supplies.....	1528	1.62
Evans, Munzer, Pickering & Co., shades, etc.....	1529	33.95
H. E. Murdock, card cutter and trimmer.....	1530	13.00
Minneapolis Jewelry Manufacturing Co., gold medal.....	1531	10.00
The University Book Store, books.....	1537	4.55
Simonson Bros. Manufacturing Co., whitewood.....	1544	1.93
J. A. Towers, desk.....	1546	15.00
Josephine A. Clark, index cards.....	1548	26 25
Noyes Bros. & Cutler, drugs.....	1551	46.33
W. D. Galvin, services first term.....	1553	50.00
William Wesley & Son, books.....	1555	57.40
Oswald Weigel, books.....	1556	14.95
R. Friedlander & Sohn, books.....	1557	15.60
Allen C. Benham, services in English Department.....	1563	50.00
A. W. Campbell, carriage.....	1564	3.00
The Minneapolis General Electric Co., electric lighting.....	1565	3.56
Petty bills, miscellaneous supplies.....	1581	16.50
D. W. Sprague, accountant, freight, express, postage and extra help	1582	15.43
George H. Normington, services as musical director.....	1583	70.00
The University Press, stationery.....	1638	7.50
Minneapolis Gas Light Co., gas.....	1645	29.76
The Minneapolis General Electric Co., electric lighting.....	1651	5.63
G. E. Stechert, books.....	1652	11.97
Alfred L. Robbins-Martin Co., physical apparatus.....	1653	64.44
Ella C. Ruscoe, correcting examination papers.....	1654	6.25
E. E. McDermott, special training in debate.....	1655	100.00
Minneapolis Photo Materials Co., photo materials.....	1656	10.20
C. E. Van Duzee, filling gas cylinders.....	1657	26.25
W. W. Dakin, miscellaneous supplies.....	1658	275.00
The Minneapolis General Electric Co., electric lighting.....	1661	1.05
H. A. Grow, draughting.....	1670	31.20
The University Book Store, books, etc.....	1671	24.50
Petty bills, miscellaneous supplies.....	1699	2.50
Chas. P. Sigenfoos, dry goods.....	1701	17.75
A. J. Dahl & Co., books.....	1739	5.10
C. O. Rosendahl, drawing maps.....	1740	6.00
Minneapolis Photo Materials Co., velox, etc.....	1741	8.37
McClellan Paper Co., paper.....	1756	36.98
Max Kaehler & Martin, chemical apparatus.....	1762	2,749.91
D. W. Sprague, accountant, freight, express, postage and extra help	1763	6.20
Petty bills, miscellaneous supplies.....	1764	15.13
C. J. Hibbard, photo materials.....	1765	8.20
C. J. Hibbard, making lantern slides.....	1766	150.00
The University Book Store, books.....	1768	13.15
Charles Scribner's Sons, books.....	1769	8.70
John H. Fouch, negative films.....	1770	57.60
Pioneer Press Co., binding 55 volumes.....	1771	60.50
Total		\$120,450.75

THE COLLEGE OF ENGINEERING AND THE MECHANIC ARTS.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Henry T. Eddy, professor of Engineering and Mechanics.....	...	\$2,200.00
John J. Flather, professor of Mechanical Engineering.....	...	2,200.00
William R. Hoag, professor of Civil Engineering.....	...	2,000.00

	No. Voucher.	Amount.
Arthur E. Haynes, professor of Mathematics.....	...	2,000.00
Frank H. Constant, professor of Structural Engineering.....	...	1,320.00
Harry E. Smith, assistant professor of Mechanical Engineering.....	...	1,600.00
William H. Kirchner, assistant professor of Drawing.....	...	1,500.00
Frank W. Springer, assistant professor of Electrical Engineering.....	...	1,075.00
James M. Tate, instructor in Carpentry.....	...	900.00
William H. Merriman, instructor in Machine Work.....	...	800.00
C. Coleman Jett, instructor in Machine Design and Drawing....	...	600.00
Amelia I. Burgess, instructor in Freehand Drawing.....	...	700.00
Henrietta Clopath, instructor in Freehand Drawing.....	...	700.00
Nellie S. Trufant, instructor in Drawing.....	...	600.00
Joseph A. Thaler, instructor in Engineering Mathematics.....	...	300.00
William B. Newhall, student assistant.....	...	225.00
Charles E. Crownover, scholar.....	...	280.00
E. D. Cummings, instructor in Standard Engineering.....	...	250.00
Louis H. Ashbaugh, scholar.....	...	20.00
Argyle Buck, janitor.....	...	600.00
Harry Dixon, engineer.....	...	550.00
John Arnbuster, machinist.....	...	540.00
George Plowman, engineer.....	...	60.00
Minneapolis Gas Light Co., gas.....	56	3.12
Twin City Paint Co., plaster of Paris.....	70	5.50
Minneapolis Photo Materials Co., photo material.....	72	5.40
M. O. Stone, general jobbing.....	73	22.05
W. K. Morrison & Co., hardware.....	74	28.35
Electric Machinery Co., generator and motors.....	75	625.00
Northwestern Foundry, castings.....	76	9.33
W. M. Simms, hardware.....	83	6.55
J. Gilmore, cupola.....	100	220.00
D. W. Sprague, accountant, freight, express, postage and extra help	108	35.45
Petty bills, miscellaneous supplies.....	110	9.95
Minneapolis Gas Light Co., gas.....	117	3.77
Edwin R. Williams, draughting supplies.....	117	1.50
W. J. Hall, shelves.....	125	11.50
The University Book Store, books.....	127	.25
Electric Machinery Co., rheostat.....	134	12.20
Twin City Van & Storage Co., teaming.....	135	34.75
Charles Peterson, machinery foundation.....	136	15.10
M. O. Stone, labor.....	137	12.45
Northwestern Star Oil Co., Star oil.....	138	9.25
John F. Wilcox, lumber.....	139	42.89
E. O. Parker, molding sand.....	140	15.00
James G. Biddle, electrical machinery.....	141	100.50
Pioneer Fuel Co., coal.....	147	14.40
Charles Peterson, repairing boiler setting.....	152	30.00
Weston Electrical Instrument Co., volt meter, etc.....	153	75.83
Standard Oil Co., oil.....	158	1.95
Janney, Semple, Hill & Co., hardware.....	162	3.68
Minneapolis Photo Materials Co., book, etc.....	164	.50
Stoddard Hardware Co., hardware.....	168	70.14
W. K. Morrison & Co., hardware.....	172	.15
Louis Sundgren, labor.....	191	15.12
R. Sauter, labor.....	192	15.12
J. Gilmour, cupola lining.....	193	16.00
Riehle Bros. Testing Machine Co., test plates.....	199	18.10
D. W. Sprague, accountant, freight, express, postage and extra help	206	27.67
Petty bills, miscellaneous supplies.....	201	13.23
Kuhlo & Ellerbe, engineer's transit.....	202	185.00
W. M. Simms, hardware.....	269	12.29
Minneapolis Gas Light Co., gas.....	272	4.03
Minneapolis Office & School Furniture Co., tables.....	278	101.00
W. K. Morrison & Co., hardware.....	283	.14
W. S. Nott Co., leather.....	284	1.44
Twin City Iron Works, castings, etc.....	308	31.91
Electric Engineering Co., electrical supplies.....	288	86.41
Crocker-Wheeler Co., motors.....	289	322.00
Northwestern Electric Co., marble switchboard.....	298	133.74
M. Christenson, fire brick.....	300	20.20
Whiting Foundry Equipment Co., blast gauge.....	301	5.00
Charles Peterson, lining cupola.....	302	35.00
Northwestern Belting Co., work on belt, etc.....	303	44.47
Wm. Bros, eight pieces steel.....	304	11.00
Edwin R. Williams, draughting supplies.....	305	2.69
Northwestern Foundry, castings.....	306	43.61
R. B. Thompson, lumber.....	307	30.75
University Cycle Exchange, dynamo.....	309	6.00
Nelson Tuthill Lumber Co., lumber.....	310	47.45
Robinson & Cary Co., shafting.....	311	18.00

	No. Voucher.	Amount.
Minneapolis Iron Stove Co., shafting.....	312	35.10
Lyman-Eliel Drug Co., drugs.....	314	.75
Chas. E. Tullar, laboratory work.....	348	15.50
Frank W. Springer, electrical supplies.....	349	23.19
A. J. Kreger, wiring.....	350	27.30
The Colorado Lamp Co., 100 lamps.....	354	18.00
A. D. Houlton, moving laboratory.....	357	35.25
Bryan Marsh Co., lamps.....	359	50.00
Weston Electrical Instrument Co., meters, etc.....	360	224.88
D. W. Sprague, accountant, freight, express, postage and extra help	381	20.32
Petty bills, miscellaneous supplies.....	382	5.60
Minneapolis Gas Light Co., gas.....	450	5.20
Pioneer Fuel Co., coal.....	455	30.58
Edwin R. Williams, blue print.....	460	1.75
The University Book Store, stationery.....	462	1.25
Wm. C. Bailey, lumber.....	468	13.02
Littlefield & Gerk, hot air supplies.....	469	27.93
Minneapolis Photo Materials Co., photo materials.....	470	3.10
Janney, Semple, Hill & Co., hardware.....	471	8.42
Louis Sundgren, labor.....	473	32.76
Stoddard Hardware Co., hardware.....	474	119.29
John F. McDonald Lumber Co., lumber.....	475	61.34
Plumbing & Steamfitting Supplies Co., metal dies.....	476	2.01
Minneapolis Office & School Furniture Co., wire rack.....	479	9.00
J. Danner, wiring.....	481	12.00
M. E. Anderson, wiring.....	482	8.25
B. Garbett, assistant in foundry.....	485	54.00
Amos D. Houlton, wiring.....	486	11.00
Guy J. Houts, wiring.....	487	12.25
Guy J. Houts, wiring.....	488	9.00
Electrical Engineering Co., electrical supplies.....	489	124.77
Chas. T. Leonard Co., machine covers.....	490	8.25
R. B. Thompson, lumber.....	491	33.28
Twin City Iron Works, iron.....	492	33.70
L. S. Broadway, two instrument cases.....	493	18.00
Fairbanks, Morse & Co., truck.....	495	3.25
H. L. Swain & Co., coal.....	502	20.15
W. M. Simms, hardware.....	503	19.18
W. K. Morrison & Co., hardware.....	508	4.26
W. S. Nott Co., belting.....	510	31.55
Frank W. Springer, sundry disbursements.....	525	25.60
A. J. Kreger, wiring, etc.....	527	29.26
John J. Flather, telegrams, etc.....	537	10.87
Weston Electrical Instrument Co., repairing Watt meter.....	540	9.15
E. O. Parker, molding sand.....	541	6.00
Petty bills, miscellaneous supplies.....	562	21.37
Kuhlo & Ellerbe, range poles, etc.....	565	17.50
D. W. Sprague, accountant, freight, express, postage and extra help	568	8.45
Minneapolis General Electric Co., electric lighting.....	571	12.50
James W. Day, ice.....	637	54.30
J. H. Constantine, drawing board boxes.....	648	10.00
W. K. Morrison & Co., hardware.....	653	4.21
Electrical Engineering Co., electrical supplies.....	662	.30
The Minneapolis General Electric Co., electric lighting.....	664	8.46
Minneapolis Office & School Furniture Co., tables.....	665	223.00
Twin City Iron Works, scrap iron.....	666	25.75
H. A. Hamlin, test bars.....	667	9.79
Fred J. Scott, printing.....	668	11.75
Northwestern Foundry, castings.....	669	79.04
Janney, Semple, Hill & Co., hardware.....	670	25.00
Stoddard Hardware Co., hardware.....	671	16.05
R. B. Thompson, lumber.....	672	4.92
W. M. Simms, hardware.....	680	4.63
Standard Oil Co., gasoline.....	706	8.63
Clayton R. Cooley, deputy collector, duties on goods from South-ampton	718	73.95
D. W. Sprague, accountant, freight, express, postage and extra help	721	8.75
W. M. Simms, hardware.....	726	2.35
Minneapolis Office & School Furniture Co., six draughting tables.....	747	108.00
Electrical Engineering Co., electrical supplies.....	745	32.54
Petty bills, miscellaneous supplies.....	748	5.57
Minneapolis Gas Light Co., gas.....	750	8.84
A. J. Kreger, wiring, new shops.....	753	15.00
Pioneer Fuel Co., coal.....	819	118.34
W. K. Morrison & Co., hardware.....	828	10.33
Electrical Engineering Co., electrical supplies.....	829	5.96
Heywood Manufacturing Co., boxes.....	831	16.50

	No. Voucher.	Amount.
W. S. Nott Co., belting.....	834	57.15
W. M. Simms, hardware.....	836	4.41
H. L. Swain & Co., coal.....	837	12.50
H. A. Hamlin, castings.....	838	9.10
Stoddard Hardware Co., hardware.....	839	9.47
R. B. Thompson, lumber.....	840	6.56
Minneapolis Photo Materials Co., photo supplies.....	846	13.22
John H. Fouch, camera, etc.....	848	11.80
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	851	8.67
Noyes Bros. & Cutler, drugs.....	852	1.11
Geo. D. Shepardson, electrical supplies.....	854	5.99
Victor Electrical Co., one pair motors.....	856	90.00
The University Press, stationery.....	857	2.75
The University Book Store, stationery.....	859	30.77
The Minneapolis General Electric Co., electric lighting.....	863	3.80
H. E. Smith, stamp and express.....	864	5.45
Frank W. Springer, electrical supplies.....	867	92.08
Minneapolis Photo Materials Co., photo supplies.....	869	4.18
Minneapolis Office & School Furniture Co., furniture.....	872	12.00
Lyman-Eliei Drug Co., drugs.....	888	11.42
St. Paul Electric Co., electric supplies.....	904	9.36
Morgan Import Freight & Customs Agency, filing protest.....	933	2.00
F. Darton & Co., freight, etc.....	934	22.37
The Minneapolis General Electric Co., electric current.....	935	17.01
D. W. Sprague, accountant, freight, express, postage and extra help	936	42.65
Petty bills, miscellaneous supplies.....	938	11.88
Janney, Semple, Hill & Co., hardware.....	882	40.85
Minneapolis Gas Light Co., gas.....	1005	6.36
Minneapolis Gas Light Co., gas.....	1006	5.76
W. K. Morrison & Co., hardware.....	1014	1.43
Pioneer Fuel Co., coal.....	1024	47.41
The Munson Stationery Co., stationery.....	1027	28.41
W. M. Simms, hardware.....	1028	9.02
Edwin R. Williams, rolls print.....	1030	5.80
Wm. C. Bailey, hardwood lumber.....	1034	22.14
Minneapolis Photo Materials Co., photo materials.....	1035	3.55
Minneapolis Brass & Iron Manufacturing Co., castings.....	1036	7.15
Stoddard Hardware Co., hardware.....	1037	5.58
Twin City Iron Works, castings.....	1038	17.03
The John F. McDonald Lumber Co., pine.....	1040	41.06
Noyes Bros. & Cutler, drugs.....	1047	4.00
Electrical Engineering Co., electrical supplies.....	1054	5.64
Lyman-Eliei Drug Co., drugs.....	1055	9.00
The University Book Store, books.....	1060	1.50
Miss H. Clopath, ticking.....	1061	5.00
Fred J. Scott, printing.....	1065	2.75
The University Press, stationery.....	1071	4.95
Weston Electrical Instrument Co., electrical instrument.....	1073	15.00
The Minneapolis General Electric Co., electric power.....	1074	6.27
The Minneapolis General Electric Co., electric lights.....	1077	.20
James J. Hicks, philosophical instruments.....	1098	44.53
R. Alexander, section of lockers.....	1099	29.00
Petty bills, miscellaneous supplies.....	1101	17.44
D. W. Sprague, accountant, freight, express, postage and extra help	1104	6.55
W. K. Morrison & Co., hardware.....	1167	1.68
Pioneer Fuel Co., coal.....	1168	43.17
The Minneapolis General Electric Co., electric lighting.....	1169	1.64
Minneapolis International Electric Co., rent of meters.....	1184	15.00
Twin City Iron Works, flanged pulleys.....	1186	.....
H. L. Swain & Co., coal.....	1185	12.50
Twin City Iron Works, flanged pulleys.....	1186	15.00
Minneapolis Office & School Furniture Co., cabinets.....	1187	32.00
Minneapolis Photo Materials Co., photo materials.....	1188	9.46
Frank W. Springer, miscellaneous supplies.....	1190	39.90
Frank W. Springer, miscellaneous supplies.....	1191	24.04
Electrical Engineering Co., electric supplies.....	1192	1.10
R. B. Thompson, lumber.....	1195	6.62
L. S. Brockway, boxes.....	1196	5.00
Edwin R. Williams, stationery.....	1199	8.45
John J. Flather, expenses to Duluth, etc.....	1200	15.20
Minneapolis Stamp & Stencil Co., steel stamps, etc.....	1204	6.30
W. M. Simms, hardware.....	1205	15.10
Twin City Iron Works, automatic engine.....	1206	150.00
Janney, Semple, Hill & Co., hardware.....	1207	7.28
Stoddard Hardware Co., hardware.....	1208	44.66
General Electric Co., meter.....	1241	37.50
The Plumbing & Steamfitting Supplies Co., plumbing supplies..	1247	47.77
The Minneapolis Gas Light Co., gas.....	1279	4.92

	No. Voucher.	Amount
Crosby Steam Gauge & Valve Co., planimeter.....	1283	22.50
Petty bills, miscellaneous supplies.....	1285	12.83
D. W. Sprague, accountant, freight, express, postage and extra help	1288	34.63
The Minneapolis General Electric Co., electric lighting.....	1337	68.70
The Minneapolis General Electric Co., electric lighting.....	1338	11.21
Pioneer Fuel Co., coal.....	1344	53.93
Minneapolis Gas Light Co., gas.....	1346	5.88
Fred J. Scott, printing.....	1347	4.00
Minneapolis Photo Materials Co., photo materials.....	1356	1.00
Edwin R. Williams, stationery.....	1357	2.40
R. B. Thompson, lumber.....	1363	8.60
Stoddard Hardware Co., hardware.....	1364	33.87
Northwestern Foundry, castings.....	1365	11.89
Minneapolis Stamp & Stencil Co., brass checks.....	1366	8.00
Frank W. Springer, miscellaneous supplies.....	1367	15.58
Arnold Kuhlo, engineering instruments.....	1368	42.00
W. M. Simms, hardware.....	1369	5.80
Lyman-Eliei Drug Co., drugs.....	1372	2.40
Electrical Engineering Co., electrical supplies.....	1375	2.48
The Minneapolis General Electric Co., electric lighting.....	1396	.50
H. A. Smith, books.....	1398	6.00
Crescent Steel Co., steel.....	1405	65.28
Buffalo Forge Co., blower.....	1406	33.00
Frank W. Springer, miscellaneous supplies.....	1413	10.25
Petty bills, miscellaneous supplies.....	1414	19.11
D. W. Sprague, accountant, freight, express, postage and extra help	1439	27.37
Minneapolis Gas Light Co., gas.....	1492	5.04
W. M. Simms, hardware.....	1499	3.98
Northwestern Foundry, castings.....	1509	61.89
Janney, Semple, Hill & Co., hardware.....	1510	9.40
Fred A. Rich, veneer.....	1511	14.40
John F. Wilcox, pine.....	1512	81.00
W. S. Nott Co., belting.....	1513	10.80
Stoddard Hardware Co., hardware.....	1514	34.95
Minneapolis Photo Materials Co., photo supplies.....	1515	11.60
The Minneapolis General Electric Co., electric lighting.....	1519	15.80
W. H. Merriman, travel expenses.....	1522	9.00
Lyman-Eliei Drug Co., drugs.....	1527	7.80
Electrical Engineering Co., electrical supplies.....	1528	18.95
Fairbanks, Morse & Co., tester.....	1536	90.00
The University Book Store, stationery.....	1537	.80
Twin City Iron Works, turned steel, etc.....	1540	9.25
The Whitney Manufacturing Co., drill chucks, etc.....	1549	12.96
The Minneapolis General Electric Co., electric lighting.....	1565	1.60
Crescent Steel Co., steel.....	1570	21.27
Petty bills, miscellaneous supplies.....	1581	24.69
D. W. Sprague, accountant, freight, express, postage and extra help	1582	4.56
The John Leslie Paper Co., paper.....	1632	1.80
Minneapolis Gas Light Co., gas.....	1645	3.96
The Minneapolis General Electric Co., electric lighting.....	1651	.20
Geo. F. Shepardson, miscellaneous supplies.....	1659	19.55
John J. Flather, miscellaneous supplies.....	1660	9.50
The Minneapolis General Electric Co., electric lighting.....	1661	9.66
John Reid, work on cylinders, etc.....	1662	18.65
Stoddard Hardware Co., hardware.....	1663	29.62
Twin City Paint Co., plaster of Paris.....	1664	9.00
Edwin R. Williams, Imperial cloth, etc.....	1665	11.44
Northern Machinery Co., chucks and jaws.....	1666	106.48
Weston Electrical Instrument Co., volt meter.....	1668	12.66
The University Book Store, stationery.....	1671	1.75
Lyman-Eliei Drug Co., drugs.....	1672	1.10
Standard Oil Co., gasoline.....	1695	5.78
Northwestern Star Oil Co., dynamo oil.....	1700	6.00
Minneapolis Photo Materials Co., velox.....	1741	2.30
The Minneapolis General Electric Co., Watt meters.....	1742	50.00
Petty bills, miscellaneous supplies.....	1764	3.47
Geo. D. Shepardson, desk and battery.....	1767	48.03
The University Book Store, kodak.....	1768	23.20
Geo. D. Shepardson, office help.....	1777	10.35
Total		\$28,674.79

THE COLLEGE OF LAW.

CURRENT EXPENSE.

	No. Voucher.	Amount.
William S. Pattee, dean.....	...	\$3,500.00
Adam C. Hickman, professor Pleading and Practice.....	...	2,500.00
James Paige, professor Torts and Criminal Law.....	...	2,400.00
Henry J. Fletcher, lecturer Contracts and Real Property.....	...	1,800.00
Edwin A. Jaggard, lecturer Taxation.....	...	280.00
Howard S. Abbott, lecturer Corporations.....	...	830.00
John Day Smith, lecturer American Constitutional Law.....	...	280.00
Robert S. Kolliner, lecturer Personal Property.....	...	690.00
George B. Young, lecturer Conflict of Laws.....	...	60.00
James O. Pierce, lecturer Constitutional Jurisprudence.....	...	340.00
C. D. O'Brien, lecturer Criminal Procedure.....	...	100.00
John C. Sweet, lecturer Mortgage Foreclosure.....	...	270.00
Jared Howe, lecturer Landlord and Tenant.....	...	60.00
Charles A. Willard, lecturer.....	...	210.00
C. M. Ferguson, lecturer.....	...	70.00
Ransom J. Powell, lecturer in Justice Practice.....	...	900.00
William Furst, librarian.....	...	350.00
William W. Folwell, lecturer on International Law.....	...	210.00
Hugh E. Willis, typewriter.....	...	460.00
Frank P. Eckert, janitor.....	...	505.38
Minneapolis Gas Light Co., gas.....	56	.39
T. & J. W. Johnson & Co., books.....	97	417.32
D. W. Sprague, accountant, freight, express, postage and extra help	108	23.50
Minneapolis Gas Light Co., gas.....	111	8.58
Fred J. Scott, printing.....	112	3.75
H. L. Collins Co., books.....	142	83.00
The Lawyers' Co-operative Publishing Co., books.....	143	31.50
The University Press, books.....	144	272.50
Frank P. Dufresne, books.....	145	386.85
Petty bills, miscellaneous supplies.....	201	4.90
Minneapolis Gas Light Co., gas.....	272	17.68
A. Engebretson, platform.....	299	8.50
Banks Law Publishing Co., books.....	313	789.80
D. W. Sprague, accountant, freight, express, postage and extra help	381	17.50
Minneapolis Gas Light Co., gas.....	450	20.54
The University Book Store, rent of hall.....	462	100.00
H. L. Collins Co., books.....	494	34.15
The University Press, stationery.....	524	24.10
T. & J. W. Johnson & Co., books.....	546	114.08
Minneapolis General Electric Co., electric lighting.....	551	33.29
Petty bills, miscellaneous supplies.....	562	8.15
D. W. Sprague, accountant, freight, express, postage and extra help	568	4.55
Minneapolis General Electric Co., electric lighting.....	571	12.57
James W. Day, ice.....	637	9.57
Callaghan & Co., books.....	673	586.50
The University Press, stationery, etc.....	674	183.05
D. W. Sprague, accountant, freight, express, postage and extra help	721	1.30
Incandescent Gas Light Co., mantels.....	728	3.25
Minneapolis Gas Light Co., gas.....	750	18.72
John A. Schlener & Co., stationery.....	841	1.50
The University Press, stationery.....	857	13.00
The University Book Store, books and rent hall.....	859	119.00
The Minneapolis General Electric Co., electric current.....	863	21.83
W. S. Pattee, books.....	870	103.20
H. L. Collins Co., books.....	871	111.25
Minneapolis Office & School Furniture Co., furniture.....	872	29.75
T. & J. W. Johnston & Co., books.....	895	149.06
American Law School Association, annual fees.....	905	10.00
Fred J. Scott, envelopes.....	906	23.00
D. W. Sprague, accountant, freight, express, postage and extra help	936	1.00
Petty bills, miscellaneous supplies.....	938	4.15
Minneapolis Gas Light Co., gas.....	1005	13.20
Minneapolis Gas Light Co., gas.....	1006	16.44
John A. Schlener & Co., mantels.....	1008	3.00
Incandescent Gas Light Co., mantels.....	1012	6.50
Fred J. Scott, printing.....	1065	4.00
The Minneapolis General Electric Co., electric lights.....	1077	9.53
Minneapolis Office & School Furniture Co., furniture.....	1106	44.00
The University Press, stationery.....	1209	19.75
H. L. Collins Co., books.....	1210	113.35

	No. Voucher.	Amount.
The University Book Store, books, etc.....	1217	75.87
Harrison & Smith Co., stationery.....	1245	28.75
The Boston Book Co., books.....	1274	230.00
Little, Brown & Co., books.....	1275	16.75
The Minneapolis Gas Light Co., gas.....	1279	25.44
Petty bills, miscellaneous supplies.....	1285	4.50
D. W. Sprague, accountant, freight, express, postage and extra help	1288	3.50
The Minneapolis General Electric Co., electric lighting.....	1337	13.49
Minneapolis Gas Light Co., gas.....	1346	8.04
H. W. Childs, books.....	1360	90.25
Frank P. Dufresne, books.....	1361	13.50
The University Press, stationery.....	1394	4.25
The Minneapolis General Electric Co., electric lighting.....	1396	11.73
The Boston Book Co., books.....	1400	362.00
Petty bills, miscellaneous supplies.....	1414	1.10
Gopher, advertising	1415	15.00
D. W. Sprague, accountant, freight, express, postage and extra help	1439	139.15
Minneapolis Gas Light Co., gas.....	1492	15.60
Baker, Voohis & Co., books.....	1507	5.75
Pratt's Express Co., express, etc.....	1532	6.50
The University Press, stationery.....	1547	22.20
The Minneapolis General Electric Co., electric lighting.....	1565	10.43
The University Press, stationery.....	1638	3.10
Minneapolis Gas Light Co., gas.....	1645	5.76
The Minneapolis General Electric Co., electric lighting.....	1651	1.77
Goodyear Book Co., books.....	1667	5.25
Total		\$20,971.16

THE SCHOOL OF MINES.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Charles E. Van Barneveld, professor.....	...	\$2,100.00
Minneapolis Gas Light Co., gas.....	56	.13
Minneapolis Gas Light Co., gas.....	111	4.13
John A. Schlener & Co., stationery.....	116	1.75
Minneapolis Gas Light Co., gas.....	450	3.77
Minneapolis General Electric Co., electrical supplies.....	552	9.46
Minneapolis Gas Light Co., gas.....	750	5.07
Pioneer Fuel Co., coal.....	819	14.60
W. M. Simms, funnels, etc.....	907	1.50
M. Christenson, cement, etc.....	908	2.65
Christian Becker, weights.....	909	96.85
The Denver Fire Clay Co., mining supplies.....	910	350.68
The Denver Fire Clay Co., mining supplies.....	911	13.65
The Minneapolis General Electric Co., electric current.....	912	31.62
The University Book Store, books.....	913	60.08
Edwin R. Williams, roll blue print.....	914	3.50
The Folmer & Schwing Manufacturing Co., lantern fixtures.....	915	18.50
W. R. Appleby, miscellaneous supplies.....	916	6.75
Minneapolis Photo Materials Co., bottle catechin.....	917	6.00
John A. Schlener & Co., carbon books.....	918	7.20
The Plumbing & Steamfitting Supplies Co., stone slop sinks, etc.	919	51.55
Noyes Bros. & Cutler, drugs.....	920	4.75
Levi B. Pease, work in assay laboratory.....	921	75.00
John A. Schlener & Co., Eureka bath, etc.....	922	6.05
R. B. Pelton, work at the testing office, etc.....	923	174.50
The British Columbia Record, Limited, subscription one year...	924	4.00
The School of Mines, payroll.....	931	350.00
D. W. Sprague, accountant, petty bills.....	932	7.55
Minneapolis Gas Light Co., gas.....	1005	12.60
Minneapolis Gas Light Co., gas.....	1006	14.52
Pioneer Fuel Co., coal.....	1024	17.20
The Minneapolis General Electric Co., electric lights.....	1037	14.13
The Minneapolis General Electric Co., electric lights.....	1077	4.00
W. R. Appleby, miscellaneous supplies.....	1081	10.95
The Munson Stationery Co., neostyle and hektograph paper....	1082	3.00
The Plumbing & Steamfitting Supplies Co., plumbing supplies...	1083	1.65
Electric Machinery Co., electric supplies.....	1084	29.50
H. L. Swain & Co., wood.....	1085	10.00
Minneapolis Photo Materials Co., photo supplies.....	1086	5.25

	No. Voucher.	Amount.
Noyes Bros. & Cutler, borax glass.....	1087	13.00
Chas. E. Van Barneveldt, miscellaneous supplies.....	1088	28.82
The University Book Store, stationery.....	1089	5.05
Christian Becker, riders for balances.....	1090	6.30
Stanford University Book Store, book.....	1091	2.75
O. H. Peck, camera.....	1092	24.75
Peter Christianson, salary.....	1093	110.00
Edward P. McCarthy, salary.....	1093	90.00
Benj. F. Groat, salary.....	1093	90.00
Harry H. Cupinall, salary.....	1093	60.00
Petty bills, miscellaneous supplies.....	1094	7.50
Minneapolis Office & School Furniture Co., pigeon hole case.....	1106	9.00
The Minneapolis General Electric Co., electric lighting.....	1169	3.65
W. M. Simms, hardware.....	1254	5.77
Minneapolis Photo Materials Co., photo materials.....	1255	1.29
W. R. Appleby, sundries.....	1256	15.94
The University Book Store, books.....	1257	14.17
R. B. Thompson, lumber.....	1258	4.75
Electrical Engineering Co., electrical supplies.....	1259	7.84
Noyes Bros. & Cutler, drugs.....	1260	22.26
Edwin R. Williams, silk sheets.....	1261	3.00
The Link-Belt Supply Co., rods and washers.....	1262	1.25
John H. Fouch, albums.....	1263	11.25
C. E. Van Barneveldt, engineering supplies.....	1264	39.15
Levi B. Pease, services in assaying.....	1265	75.09
McIntosh Stereopticon Co., lamp, etc.....	1266	12.64
A. S. Aloe Co., philagree rods, etc.....	1267	41.73
R. B. Pelton, reinforcing posts.....	1268	24.00
The American Chemical Journal, books.....	1269	5.00
J. B. Colt Co., slide boxes.....	1270	12.00
Denver Fire Clay Co., crucibles, etc.....	1271	37.68
Bausch & Lomb Optical Co., anastigmates.....	1272	86.25
The Minneapolis Gas Light Co., gas.....	1279	1.56
T. L. Donahue, fire lighters.....	1284	20.00
Peter Christianson, salary.....	1286	110.00
Edward P. McCarthy, salary.....	1286	90.00
Benj. F. Groat, salary.....	1286	90.00
Harry H. Cupinall, salary.....	1286	60.00
Petty bills, miscellaneous supplies.....	1290	12.97
The Minneapolis General Electric Co., electric lighting.....	1338	1.90
Minneapolis Gas Light Co., gas.....	1346	.12
A. J. Dahl & Co., books.....	1421	81.40
Minneapolis Photo Materials Co., photo materials.....	1422	141.17
W. M. Simms, hardware.....	1423	13.05
Noyes Bros. & Cutler, drugs.....	1424	22.90
Carl F. Thayer, bellows, etc.....	1425	18.45
Edwin R. Williams, rolls print.....	1426	1.80
Arnold Kuhlo, mining compass.....	1427	35.00
Wm. Lorenz, trunk.....	1428	33.00
University of Chicago Press, book.....	1429	7.88
W. & L. E. Gurley, physical apparatus.....	1430	10.00
E. D. Mix, slide mats.....	1431	12.05
The Minneapolis General Electric Co., electric lighting.....	1432	8.21
The University Book Store, book.....	1433	4.50
C. L. Berger & Sons, plumb, bobs, etc.....	1434	7.70
C. T. Thayer, sundries.....	1435	14.05
E. D. Mix, miscellaneous supplies.....	1436	36.59
Peter Christianson, salary.....	1437	110.00
Edward P. McCarthy, salary.....	1437	90.00
Benj. F. Groat, salary.....	1437	90.00
Harry H. Cupinall, salary.....	1437	60.00
Petty bills, miscellaneous supplies.....	1440	6.91
R. B. Thompson, lumber.....	1497	2.70
W. R. Appleby, self and assistant to Utah.....	1571	257.90
Chas. E. Van Barneveldt, bill of expenses to Utah.....	1572	326.27
W. M. Simms, gasoline.....	1573	3.20
Minneapolis Photo Materials Co., photo materials.....	1574	1.24
Denver Fire Clay Co., crucibles, etc.....	1575	99.87
Christian Becker, balances and weights.....	1576	210.00
The Minneapolis General Electric Co., electric lighting.....	1577	.45
Peter Christianson, salary.....	1578	110.00
Edward P. McCarthy, salary.....	1578	90.00
Benj. F. Groat, salary.....	1578	90.00
Harry H. Cupinall, salary.....	1578	60.00
Petty bills, miscellaneous supplies.....	1579	37.13
Wm. Bros, square iron.....	1583	6.69
Minneapolis Gas Light Co., gas.....	1645	.84
The Minneapolis General Electric Co., electric lighting.....	1661	1.92
Minneapolis Photo Materials Co., velox carbon.....	1702	8.36

	No. Voucher.	Amount
Pioneer Fuel Co., coal.....	1703	8.20
The Minneapolis General Electric Co., electric lighting.....	1704	1.23
C. L. Berger & Sons, transit accessories.....	1774	100.00
The Pioneer Fuel Co., coal.....	1775	12.82
W. R. Appleby, travel New York, Montreal, etc.....	1776	50.10
Petty bills, miscellaneous supplies.....	1777	2.70
Harry H. Cupinall, payroll.....	1779	60.00
Total		\$7,138.71

THE COLLEGE OF MEDICINE AND SURGERY.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Parks Ritchie, dean.....	...	\$2,400.00
Thomas G. Lee, professor.....	...	2,400.00
Charles J. Bell, professor.....	...	2,000.00
Frank F. Wesbrook, professor.....	...	1,800.00
Richard O. Beard, professor.....	...	1,500.00
Henry M. Bracken, professor.....	...	1,000.00
Frederick A. Dunsmoor, professor.....	...	600.00
James H. Dunn, professor.....	...	600.00
J. Clark Stewart, professor.....	...	450.00
Charles H. Hunter, professor.....	...	200.00
Abram B. Cates, professor.....	...	400.00
Everton J. Abbott, professor.....	...	100.00
John W. Bell, professor.....	...	200.00
Charles L. Greene, professor.....	...	100.00
Charles A. Erdman, acting professor.....	...	1,800.00
Winfield S. Nickerson, assistant professor.....	...	1,500.00
S. Marx White, assistant professor.....	...	1,500.00
Hubert C. Card, assistant professor.....	...	1 100.50
M. Russel Wilcox, demonstrator.....	...	900.00
Harry K. Read, demonstrator.....	...	650.00
Margaret Nickerson, instructor.....	...	500.00
L. B. Wilson, demonstrator.....	...	400.00
Louis W. Bates, assistant.....	...	480.00
Lewis U. Boyle, metal worker.....	...	750.00
Sigurd Kaason, assistant.....	...	300.00
Chelsea C. Pratt, assistant.....	...	180.00
Everett E. Castleman, assistant.....	...	255.00
G. Elmer Strout, dispensary clerk.....	...	137.50
George B. Head, instructor.....	...	400.00
Eleanor M. Wilkinson, instructor.....	...	200.00
Edith M. Bowen, librarian.....	...	300.00
Alvin E. Carr, assistant.....	...	400.00
Bernard S. Nickerson, assistant.....	...	300.00
Harry Hazeltine, assistant.....	...	200.00
Louis H. Fligman, assistant.....	...	150.00
Charles T. Hoover, laboratory boy.....	...	120.00
Frederick A. Keehle, clerk.....	...	100.00
Earl R. Hare, prosector.....	...	400.00
Richard Lundquist, laboratory helper.....	...	112.44
Otto Schmeck, laboratory boy.....	...	45.00
Caleb P. Adams, janitor.....	...	475.00
Jack Swenson, janitor.....	...	540.00
C. W. Colburn, janitor.....	...	240.00
Oscar Berger, janitor.....	...	450.00
E. A. Taylor, janitor.....	...	300.00
L. O. Clement, dispensary clerk.....	...	12.50
Minneapolis Gas Light Co., gas.....	56	27.66
R. B. Thompson, lumber.....	59	5.55
C. W. Meneilly, groceries.....	64	3.60
Lyman-Eliel Drug Co., drugs.....	77	91.31
Standard Oil Co., gasoline.....	78	25.25
Chas. Wilkins & Co., surgical brackets.....	79	8.00
American Type Founders Co., card cutter.....	80	10.88
H. L. Collins Co., dispensary boxes.....	81	33.75
Chas. H. Circkler, physicians' supplies.....	82	9.50
W. M. Simms, hardware.....	83	3.07
Bintliff Manufacturing Co., glass and backs.....	85	6.50
W. S. Nott Co., asbestos.....	86	4.59
John Trevor, batteries, etc.....	87	28.40
Minneapolis Office & School Furniture Co., stools.....	88	15.00
F. Paul Smith, embryological material.....	89	11.15
The University Book Store, books.....	94	66.68

	No. Voucher.	Amount.
Noyes Bros. & Cutler, drugs.....	95	96.54
James W. George, histology and embryology specimens.....	101	53.50
Liquid Carbonic Acid Manufacturing Co., liquid gas.....	103	12.50
The Minneapolis General Electric Co., electric lighting.....	104	.84
The Minneapolis General Electric Co., electric lighting.....	107	10.95
D. W. Sprague, accountant, freight, express, postage and extra help	108	94.38
Petty bills, miscellaneous supplies.....	110	21.16
W. K. Morrison & Co., hardware.....	74	.25
Bausch & Lomb Optical Co., covers and jars.....	91	8.97
Minneapolis Gas Light Co., gas.....	111	26.19
Fred J. Scott, printing.....	112	6.75
R. B. Thompson, lumber.....	118	1.81
The University Press, stationery.....	121	68.25
The University Book Store, books.....	127	6.50
Boutell Bros., furniture.....	129	.65
Bausch & Lomb Optical Co., drugs.....	131	4.60
The Minneapolis General Electric Co., electric lighting.....	154	6.23
Noyes Bros. & Cutler, drugs.....	156	325.92
J. S. Todd & Co., stationery.....	157	6.55
Standard Oil Co., gasoline.....	158	46.68
Richards & Co., Limited, chemical apparatus.....	159	108.56
Liquid Carbonic Acid Manufacturing Co., liquid gas.....	160	15.00
E. H. Beckman, services surgical pathology.....	161	40.00
Janney, Semple, Hill & Co., hardware.....	162	15.65
C. W. Meneilly, groceries.....	163	11.66
Minneapolis Photo Materials Co., photo materials.....	164	4.45
A. R. Miller & Son, filter.....	167	7.00
Stoddard Hardware Co., hardware.....	168	6.85
C. H. Roberts & Co., brackets, etc.....	169	71.60
J. G. George, specimens histology laboratory.....	171	50.00
W. K. Morrison & Co., hardware.....	172	314.78
Minneapolis Brass & Iron Manufacturing Co., eighty frames....	173	8.00
J. A. Sandell, plumbing material.....	174	18.37
Merriman Box Co., boxes.....	177	40.20
Library Bureau, white cards.....	178	8.79
Concilio Bibliography Co., cards.....	179	31.58
Boston Medical & Surgical Journal, subscription three years....	180	15.00
Arthur H. Thomas, test tubes.....	181	34.40
Fairbanks, Morse & Co., oil, etc.....	182	5.00
R. Alexander, doors.....	183	215.00
Miller Lock Co., padlocks, etc.....	184	142.40
Bausch & Lomb Optical Co., microscopes and objectives.....	185	438.88
Ernst Leitz, microscopical apparatus.....	186	653.95
E. K. Greene, services histology laboratory.....	187	25.00
St. Paul Free Dispensary, use of free hospital.....	188	400.00
Stoddard Hardware Co., hardware.....	189	10.80
J. F. Lehman's Medical Buchhandlung, Max Staedke, books....	196	16.95
Th. Stauffer, books.....	198	63.38
B. E. Dahlgren, wax models.....	200	50.00
D. W. Sprague, accountant, freight, express, postage and extra help	206	117.87
Petty bills, miscellaneous supplies.....	201	28.67
H. Coulter, services histology laboratory.....	204	25.00
W. M. Simms, hardware.....	114	10.65
Minneapolis Gas Light Co., gas.....	277	62.97
Minneapolis Gas Light Co., gas.....	273	14.17
Pioneer Fuel Co., coal.....	277	8.00
W. K. Morrison & Co., hardware.....	283	.40
W. S. Nott Co., leather.....	284	5.73
The University Book Store, stationery.....	290	8.00
R. B. Thompson, lumber.....	307	7.70
Lyman-Elieel Drug Co., drugs.....	314	76.46
Minneapolis Gas Light Co., chimneys and mantels.....	315	5.75
Charles H. Cirkler, physicians' supplies.....	316	75.29
W. T. Keener & Co., books.....	317	96.65
The Journal of the American Medical Association, advertising..	318	16.00
Richards & Co., Limited, laboratory supplies.....	319	80.66
The Northwestern Lancet, advertising.....	320	60.00
McDonald Bros, laboratory supplies.....	321	15.35
Northwestern Scavenger Co., removing dead dogs.....	322	6.00
C. W. Meneilly, groceries.....	323	42.08
Schulberg & Co., dog meat.....	324	13.10
Wm. Robinson, rabbits.....	325	16.67
Ernst Leitz, laboratory supplies.....	326	189.17
Minneapolis Photo Materials Co., photo materials.....	327	.50
Minneapolis Paper Co., paper.....	328	19.59
The Hammond Typewriter Co., typewriter linen.....	329	6.50
Kroeschell Bros. Ice Machine Co., packing	330	8.00
Standard Oil Co., gasoline.....	331	25.00
Burdett & Williams, padlocks.....	332	21.00
Liquid Carbonic Acid Manufacturing Co., liquid gas.....	333	10.50

	No. Voucher.	Amount.
Chas. H. Cirkler, physicians' supplies.....	334	33.90
Minneapolis Pharmacy Co., physicians' supplies.....	335	.....
H. L. Collins Co., labels.....	341	7.05
William Donaldson & Co., crockery.....	342	27.65
Northwestern Telephone Exchange Co., rental service.....	343	12.90
Noyes Bros. & Cutler, drugs.....	355	688.20
Eugene Thunsell & Co., mica.....	356	7.20
The Kartavert Manufacturing Co., white rods.....	361	21.75
L. W. Bates, charts.....	362	5.40
H. D. Newkirk, services in laboratory.....	366	25.00
Th. Stauffer, books.....	367	61.33
Franz Jos. Steger, plaster models.....	370	159.60
C. A. Erdman, telegrams, etc.....	379	5.05
H. K. Read, preparing skeletons.....	380	365.40
D. W. Sprague, accountant, freight, express, postage and extra help	381	106.83
Petty bills, miscellaneous supplies.....	382	21.26
Minneapolis Gas Light Co., gas.....	450	75.96
Pioneer Fuel Co., coal.....	455	30.86
Smith & Wyman, storm sash.....	458	16.75
Janney, Semple, Hill & Co., hardware.....	471	.50
Electrical Engineering Co., electrical supplies.....	489	4.57
R. B. Thompson, lumber.....	491	14.10
Fairbanks, Morse & Co., oil.....	495	1.90
R. M. Chapman, groceries.....	496	6.22
North Star Printing Co., leaflets.....	497	6.50
Hahn & Harmon, letter heads.....	498	17.25
McDonald Bros., tumblers.....	500	5.06
H. L. Swain & Co., coal.....	502	1.95
W. M. Simms, hardware.....	503	25.04
Schulberg & Co., dog meat.....	504	20.65
C. W. Meneilly, groceries.....	505	10.15
Wyman, Partridge & Co., anatomical supplies.....	506	37.81
National Brass & Metal Co., brass.....	507	9.90
W. K. Morrison & Co., hardware.....	508	2.08
Gugler Electric Manufacturing Co., controller, etc.....	509	19.18
W. S. Nott Co., belting.....	510	20.52
R. H. Hegener, scalpels and knives.....	511	5.10
Yerxa Bros. & Co., groceries.....	512	7.04
J. J. Gerber, hardware.....	513	19.25
Minneapolis Office & School Furniture Co., desk.....	514	10.00
C. F. Ewing, assistant in operative surgery.....	518	50.00
Noyes Bros. & Cutler, drugs.....	519	159.22
Fred J. Scott, printing.....	520	2.00
The Northwestern Telephone Exchange Co., rental service.....	523	6.30
The University Press, stationery.....	524	69.65
Arthur H. Thomas, test tubes.....	530	109.65
A. J. Kreger, wiring pathological and bacteriological laboratory	531	5.75
M. Russell Wilcox, slaughter house materials.....	532	13.00
Dr. James H. Dunn, medical supplies.....	534	98.85
C. R. McCreery, assistant in laboratory.....	543	25.00
Thomas G. Lee, sundry disbursements.....	544	25.42
Lea Brothers & Co., books.....	545	24.00
Eimer & Amend, drugs.....	547	128.21
Minneapolis General Electric Co., electric lighting.....	551	3.30
Minneapolis General Electric Co., electric lighting.....	552	6.75
F. Hellige & Co., microtome.....	553	10.96
Standard Oil Co., gasoline.....	556	18.55
Bausch & Lomb Optical Co., physical apparatus.....	560	42.26
Petty bills, miscellaneous supplies.....	562	18.73
Liquid Carbonic Acid Manufacturing Co., liquid gas.....	564	27.25
D. W. Sprague, accountant, freight, express, postage and extra help	568	120.49
Minneapolis General Electric Co., electric lighting.....	571	38.10
James W. Day, ice.....	637	112.05
Noyes Bros. & Cutler, drugs.....	656	59.98
Electrical Engineering Co., electrical supplies.....	662	15.34
Janney, Semple, Hill & Co., hardware.....	670	.30
R. B. Thompson, lumber.....	672	2.94
The University Press, stationery.....	674	72.46
O. W. Friedlund, feed.....	676	17.19
A. J. Kreger, work in Historical Building.....	677	18.75
The Cornelian, advertising.....	679	6.00
W. M. Simms, hardware.....	680	5.66
C. W. Meneilly, groceries.....	681	14.76
Bintliff Manufacturing Co., oak and black frames.....	683	11.20
Northwestern Compo Board Co., blackboards.....	684	14.62
Wilbur F. Booth, administrator, anatomical specimens.....	687	300.00
Frank W. Bigelow, cards.....	688	8.00
W. K. Morrison & Co., hardware.....	689	8.31
Liquid Carbonic Acid Manufacturing Co., liquid gas.....	690	11.55
The Beard Art & Stationery Co., examination questions.....	691	33.60

	No. Voucher.	Amount.
Ozonet Co., ozonet.....	694	7.50
Richter Bros., books.....	695	9.40
Richards & Co., Limited, drugs.....	696	17.95
Kroeschell Bros. Ice Machine Co., thermometer.....	697	11.00
F. F. Westbrook, sundry disbursements.....	698	5.33
Electrical Engineering Co., electrical supplies.....	699	10.94
The Nebraskan Hesperian, advertising.....	700	11.00
Bausch & Lomb Optical Co., physical apparatus.....	701	83.21
The Kartavert Manufacturing Co., white rods.....	702	9.61
The American Journal of Physiology, Volume 5.....	703	5.00
Standard Oil Co., gasoline.....	706	17.12
Frioeirich Ziegler, models of vertebrates.....	712	46.68
D. W. Sprague, accountant, freight, express, postage and extra help	721	109.70
Witt's Meat Market, meat.....	725	27.67
The Minneapolis General Electric Co., electric lighting.....	730	29.66
Noyes Bros. & Cutler, drugs.....	740	17.96
The Northwestern Telephone Exchange Co., rental service.....	744	6.00
Boston Fish Co., fish and oysters.....	746	9.47
Petty bills, miscellaneous supplies.....	748	23.91
Minneapolis Gas Light Co., gas.....	750	78.30
Pioneer Fuel Co., coal.....	819	11.07
The University Press, stationery.....	822	16.50
The Northwestern Telephone Exchange Co., rental service.....	825	6.00
W. K. Morrison & Co., hardware.....	828	14.66
Electrical Engineering Co., electrical supplies.....	829	73.65
W. M. Simms, hardware.....	836	.60
Stoddard Hardware Co., hardware.....	839	4.75
Minneapolis Photo Materials Co., photo supplies.....	846	1.65
Noyes Bros. & Cutler, drugs.....	852	173.78
Fred J. Scott, envelopes.....	858	11.75
The University Book Store, stationery.....	859	86.87
Clayton R. Cooley, deputy collector, duties on goods from Bremen	862	57.05
The Minneapolis General Electric Co., electric lighting.....	863	43.25
Bausch & Lomb Optical Co., physical apparatus.....	865	15.30
The Daily Cardinal, advertising.....	866	12.50
F. F. Westbrook, laboratory supplies, etc.....	874	13.12
The Munson Stationery Co., ink, etc.....	875	8.00
The Bintliff Manufacturing Co., picture frames.....	876	5.58
Security Envelope Co., envelopes.....	877	8.50
John Armstrong, services in laboratory.....	878	25.00
B. E. Dahlgren, models of small pox, etc.....	879	50.00
R. M. Chapman, groceries.....	880	11.05
C. W. Meneilly, groceries.....	881	18.99
Janney, Semple, Hill & Co., hardware.....	882	1.68
The Journal of the American Medical Association, advertising..	883	16.00
Richards & Co., Limited, thermometers.....	884	18.05
Library Bureau, stationery.....	885	33.60
Asbury Methodist Hospital, charge for patient in ward.....	886	17.33
Standard Oil Co., gasoline.....	887	34.56
Lyman-Elie! Drug Co., drugs.....	888	115.95
Boutell Bros., furniture.....	889	20.70
E. H. Beckman, services in surgical pathology.....	890	40.00
M. B. McNiel, printed blanks.....	891	12.25
William Wood & Co., reference handbook medical sciences.....	896	8.00
Journal Boston Society of Medical Sciences, subscription.....	897	11.00
Ernst Leitz, microscopic apparatus.....	898	232.38
John Shaw & Co., arseniate of soda.....	902	57.50
Catherine E. Putnam, services in pathological and bacteriological laboratory	927	25.00
Joseph C. Ferguson, services in pathological and bacteriological laboratory	928	25.00
The Carletonia, advertising.....	929	5.00
Morgan Import Freight & Customs Agency, filing protest.....	933	3.50
The Minneapolis General Electric Co., electric current.....	935	12.24
D. W. Sprague, accountant, freight, express, postage and extra help	936	188.52
Petty bills, miscellaneous supplies.....	938	24.08
Minneapolis Gas Light Co., gas.....	1005	57.00
Minneapolis Gas Light Co., gas.....	1006	53.72
R. B. Thompson, pine.....	1013	9.80
W. K. Morrison & Co., hardware.....	1014	2.86
Pioneer Fuel Co., coal.....	1024	18.78
John Leslie Paper Co., stationery.....	1025	1.80
The Munson Stationery Co., stationery.....	1027	2.45
The Minneapolis General Electric Co., electric lights.....	1032	9.20
Minneapolis Photo Materials Co., photo materials.....	1035	10.38
Stoddard Hardware Co., hardware.....	1037	5.50
Hahn & Harmon, labels.....	1043	6.00
Mrs. M. Read, gowns.....	1045	12.00
Noyes Bros. & Cutler, drugs.....	1047	57.38

	No. Voucher.	Amount.
Ka-Korser-Ko, Limited, lantern fixtures.....	1048	15.65
Orr & Lockett Hardware Co., door holders.....	1049	8.50
R. E. Mitchell, demonstration work.....	1050	50.00
Liquid Carbonic Acid Manufacturing Co., liquid gas.....	1051	13.30
C. W. Meneilly, groceries.....	1052	11.95
Chas. H. Cirkler, surgical supplies.....	1053	49.33
Electrical Engineering Co., electrical supplies.....	1054	24.45
Lyman-Eliel Drug Co., drugs.....	1055	29.59
Standard Oil Co., gasoline.....	1056	5.23
Wyman, Partridge & Co., dry goods.....	1057	12.82
J. Messig, frogs.....	1058	9.50
The Nebraskan-Hesperian, advertising.....	1059	12.00
The University Book Store, books.....	1060	20.60
Ernst Leitz, slides.....	1062	9.10
The Journal of Comparative Neurology, Vols. X. and XI.....	1063	7.00
Bausch & Lomb Optical Co., physical apparatus.....	1064	72.69
Ginn & Co., books.....	1068	6.00
The University Press, stationery.....	1071	23.55
The Minneapolis General Electric Co., electric lights.....	1077	5.31
Northwestern Telephone Exchange Co., rental.....	1079	6.10
R. Friedlander & Sohn, books.....	1097	20.04
Petty bills, miscellaneous supplies.....	1101	25.73
M. Russell Wilcox, miscellaneous supplies.....	1102	17.27
D. W. Sprague, accountant, freight, express, postage and extra help	1104	120.44
Minneapolis Office & School Furniture Co., lumber.....	1106	35.51
W. K. Morrison & Co., hardware.....	1167	40.01
The Minneapolis General Electric Co., electric lighting.....	1169	16.67
The John Leslie Paper Co., paper.....	1178	3.95
Evans, Munzer, Pickering & Co., shades.....	1198	5.55
Janney, Semple, Hill & Co., hardware.....	1207	.57
The University Press, stationery.....	1209	3.75
E. H. Beckman, services in surgical pathology.....	1213	40.00
The University Book Store, books, etc.....	1217	212.97
Noyes Bros. & Cutler, drugs.....	1219	118.15
C. Francis Ewing, work in anatomical laboratory.....	1220	50.00
J. J. Gerber, copper still.....	1221	5.10
Lyman-Eliel Drug Co., drugs.....	1222	40.03
The Plant Rubber Co., aprons.....	1223	9.50
John H. Fouch, slides.....	1226	13.20
C. W. Meneilly, groceries.....	1228	9.13
B. E. Dahlgren, charts.....	1229	33.90
Richards & Co., Limited, chemical apparatus.....	1230	45.00
The India Rubber Co., tube caps and edges.....	1234	7.00
Henry F. McGrugan, work in anatomical laboratory.....	1235	50.00
H. D. Newkirk, work in histology laboratory.....	1236	25.00
Chas. R. McCreery, work in histological laboratory.....	1237	25.00
F. F. Westbrook, miscellaneous supplies.....	1238	7.92
Bausch & Lomb Optical Co., physical apparatus.....	1239	50.07
Eimer & Amend, drugs.....	1240	16.75
E. K. Greene, work in histology and embryology laboratory....	1244	25.00
Ernst Leitz, physical apparatus.....	1245	86.85
Herbert W. Jones, work in anatomical laboratory.....	1249	50.00
Thomas G. Lee, sundry disbursements.....	1250	10.30
Thomas G. Lee, sundry disbursements.....	1251	22.54
Herbert Coulter, work in histology and embryology laboratory..	1252	25.00
The Northwestern Telephone Exchange Co., rental service.....	1273	6.15
The Kartavert Manufacturing Co., white rods.....	1276	24.20
Wisconsin Alumni Magazine, advertising.....	1278	7.50
The Minneapolis Gas Light Co., gas.....	1279	47.00
Standard Oil Co., gasoline.....	1281	13.84
Petty bills, miscellaneous supplies.....	1285	39.23
D. W. Sprague, accountant, freight, express, postage and extra supplies	1288	116.63
The Minneapolis General Electric Co., electric lighting.....	1337	6.54
The Minneapolis General Electric Co., electric lighting.....	1338	9.49
Minneapolis Gas Light Co., gas.....	1346	47.96
The Northwestern Telephone Exchange Co., rental service.....	1350	6.15
W. K. Morrison & Co., hardware.....	1352	1.86
W. M. Simms, hardware.....	1369	.91
C. W. Meneilly, groceries.....	1371	10.60
Lyman-Eliel Drug Co., drugs.....	1372	.75
H. L. Swain & Co., wood.....	1373	5.25
M. Russell Wilcox, dogs, cats and frogs.....	1374	19.05
Electrical Engineering Co., electrical supplies.....	1375	10.40
The Journal of the American Medical Association, advertising..	1376	16.00
The Cornellian, advertising.....	1377	12.00
St. Paul Free Dispensary, use of hospital.....	1378	400.00
Parks Ritchie, dues to Association American Medical Colleges..	1387	5.00
Noyes Bros. & Cutler, drugs.....	1389	370.89
Mrs. M. Braam, guinea pigs.....	1390	12.00
The Oberlin Review, advertising.....	1391	10.00

	No. Voucher.	Amount.
Minnesota Electric Co., dry cells.....	1392	10.25
Arthur H. Thomas Co., thermometer.....	1393	12.00
The Minneapolis General Electric Co., electric lighting.....	1396	3.97
St. Luke's Hospital, board and care obstetrics.....	1401	11.50
Frederick Leavitt, six months' services telephone messages....	1408	5.00
Petty bills, miscellaneous supplies.....	1414	21.13
Ernst Leitz, bacteriological apparatus.....	1418	12.87
F. F. Wesbrook, photographers' plates, etc.....	1419	26.10
D. W. Sprague, accountant, freight, express, postage and extra help	1439	10.20
Minneapolis Gas Light Co., gas.....	1492	52.21
Bausch & Lomb Optical Co., physical apparatus.....	1508	10.50
The Minneapolis General Electric Co., electric lighting.....	1519	4.07
C. W. Meneilly, groceries.....	1521	.88
Lyman-Eliel Drug Co., drugs.....	1527	60.52
Electrical Engineering Co., electrical supplies.....	1528	34.00
Wyman, Partridge & Co., dry goods.....	1533	12.32
The Nebraskan-Hesperian, advertising.....	1534	9.00
The Daily Cardinal, advertising balance.....	1535	25.00
The University Book Store, books.....	1537	50.42
Soren P. Rees, charts.....	1538	6.00
Twin City Iron Works, pulleys.....	1540	4.25
The Munson Stationery Co., stationery.....	1542	16.25
Chas. H. Cirkler, physicians' supplies.....	1543	23.49
Simonson Bros. Manufacturing Co., box.....	1544	12.00
Catherine E. Putnam, services in laboratory of pathology and bacteriology	1545	25.00
The University Press, stationery.....	1547	15.75
Noyes Bros. & Cutler, drugs.....	1551	59.71
The Northwestern Telephone Exchange Co., rental service.....	1552	9.90
F. F. Wesbrook, miscellaneous supplies.....	1554	15.76
Bausch & Lomb Optical Co., microscope.....	1558	67.50
Jas. C. Ferguson, services in pathological and bacteriological laboratory	1559	25.00
The Minneapolis General Electric Co., electric lighting.....	1565	3.12
James Amor & Co., transporting and burying bodies, etc.....	1566	77.00
John M. Armstrong, services in pathological and bacteriological laboratory	1569	25.00
Petty bills, miscellaneous supplies.....	1581	2.55
D. W. Sprague, accountant, freight, express, postage and extra help	1582	54.76
The University Press, stationery.....	1638	2.50
Minneapolis Gas Light Co., gas.....	1645	25.30
Northwestern Telephone Exchange Co., rental service.....	1646	12.30
The Minneapolis General Electric Co., electric lighting.....	1651	6.81
The Minneapolis General Electric Co., electric lighting.....	1661	4.68
W. K. Morrison & Co., hardware.....	1669	2.64
The University Book Store, books.....	1671	10.70
Lyman-Eliel Drug Co., drugs.....	1672	37.74
Minneapolis Dry Goods Co., napkins.....	1673	5.80
Wm. Robinson, rabbits.....	1674	10.33
Weber & Heintz, drugs.....	1675	18.20
B. E. Dahlgren, account models of smallpox, etc.....	1676	115.00
Kroeschell Bros. Ice Machine Co., miscellaneous supplies.....	1677	18.00
W. T. Keener & Co., books.....	1678	12.75
The Nebraskan-Hesperian, advertising.....	1679	6.00
John W. Thomas & Co., linen.....	1682	6.19
C. W. Meneilly, groceries.....	1683	11.99
W. K. Morrison & Co., hardware.....	1684	21.05
Noyes Bros. & Cutler, drugs.....	1685	51.04
Simonson Bros. Manufacturing Co., screens, etc.....	1686	37.50
Chas. H. Cirkler, miscellaneous supplies.....	1687	12.85
John H. Fouch, films.....	1688	6.10
The St. Paul Medical Journal, advertising.....	1689	60.00
Mrs. Vauche Bishop, clerical service.....	1690	50.00
Chas. E. Rounds, stenography and typewriting.....	1691	60.00
Dr. W. H. Condit, materials for charts.....	1692	5.50
Wisconsin Alumni Magazine, advertising.....	1693	7.50
Bausch & Lomb Optical Co., microtome knives.....	1694	12.00
Standard Oil Co., gasoline.....	1695	41.50
F. F. Wesbrook, pathological supplies.....	1697	19.32
Franklin De Cou, guinea pigs.....	1698	7.00
Petty bills, miscellaneous supplies.....	1699	31.90
H. F. Thomson, manager, advertising.....	1696	10.00
The Link Belt Supply Co., pulleys and shaft.....	1743	24.41
Minneapolis Gas Light Co., lamps and mantels.....	1744	9.00
William Donaldson & Co., sundry supplies.....	1745	5.91
McDonald Bros., crockery, etc.....	1746	10.33
W. S. Nott Co., leather.....	1747	12.48
J. E. Nash, hardware.....	1748	13.50
C. W. Meneilly, groceries.....	1749	6.68
Electrical Engineering Co., wire, etc.....	1750	14.91

	No. Voucher.	Amount
Janney, Semple, Hill & Co., hardware.....	1751	8.78
A. C. McClurg & Co., books.....	1752	14.21
R. B. Thompson, lumber.....	1758	5.70
New England Furniture & Carpet Co., linoleum.....	1759	8.75
Liquid Carbonic Acid Manufacturing Co., liquid gas.....	1760	12.50
D. W. Sprague, accountant, freight, express, postage and extra help	1763	250.17
Petty bills, miscellaneous supplies.....	1764	12.24
Fairbanks, Morse & Co., gasoline engine, etc.....	1772	5.10
Noyes Bros. & Cutler, drugs.....	1773	28.90
Total		\$44,841.79

THE COLLEGE OF HOMEOPATHIC MEDICINE AND SURGERY.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Alonzo P. Williamson, dean.....	...	\$500.00
William E. Leonard, professor.....	...	400.00
George E. Clark, professor.....	...	300.00
George E. Ricker, professor.....	...	300.00
B. Harvey Ogden, professor.....	...	300.00
E. A. Taylor, janitor.....	...	300.00
Minneapolis Gas Light Co., gas.....	56	.39
Minneapolis Pharmacy Co., drugs.....	84	25.24
South Side Dry Goods Co., cotton cloth.....	90	5.65
Minneapolis Gas Light Co., gas.....	111	3.78
Fred J. Scott, printing.....	112	5.50
Minneapolis Gas Light Co., gas.....	272	7.06
Northwestern Telephone Exchange Co., rental service.....	343	9.75
Noyes Bros. & Cutler, drugs.....	355	3.00
Chas. H. Cirkler, physicians' supplies.....	334	2.65
Minneapolis Pharmacy Co., physicians' supplies.....	335	25.23
Minneapolis Gas Light Co., gas.....	450	11.22
Minneapolis Pharmacy Co., drugs.....	515	10.36
Petty bills, miscellaneous supplies.....	562	4.84
Minneapolis General Electric Co., electric lighting.....	571	1.05
Minneapolis Pharmacy Co., drugs.....	675	7.30
Chas. H. Cirkler, dilators.....	693	7.50
Petty bills, miscellaneous supplies.....	748	6.42
Minneapolis Gas Light Co., gas.....	750	11.09
Great Western Printing Co., blanks.....	812	8.00
Pioneer Fuel Co., coal.....	819	11.06
Minneapolis Pharmacy Co., medical supplies.....	894	28.51
Petty bills, miscellaneous supplies.....	938	2.86
Minneapolis Gas Light Co., gas.....	1005	5.04
Minneapolis Gas Light Co., gas.....	1006	6.96
Pioneer Fuel Co., coal.....	1024	18.78
M. F. Patterson, dental supplies.....	1041	13.40
Minneapolis Pharmacy Co., drugs.....	1046	13.48
The Minneapolis General Electric Co., electric lighting.....	1077	.83
Northwestern Telephone Exchange Co., rental service.....	1079	3.85
D. W. Sprague, accountant, freight, express, postage and extra help	1104	2.04
Minneapolis Pharmacy Co., drugs.....	1211	23.35
Philip Fay, signs.....	1215	8.20
C. L. Simons, carpenter work.....	1227	7.60
Minneapolis Gas Light Co., gas.....	1279	6.74
Petty bills, miscellaneous supplies.....	1285	4.19
D. W. Sprague, accountant, freight, express, postage and extra help	1288	2.08
Minneapolis Gas Light Co., gas.....	1346	6.34
Whittlesey Gas & Electric Fixture Co., bracket, etc.....	1381	6.75
Minneapolis Pharmacy Co., drugs.....	1382	9.98
Petty bills, miscellaneous supplies.....	1414	7.65
Gopher, advertising	1415	15.00
Minneapolis Gas Light Co., gas.....	1492	5.78
Chas. H. Cirkler, surgical instruments.....	1543	9.75
The University Press, stationery.....	1547	10.00
The Minnesota Daily, advertising.....	1580	19.00
Petty bills, miscellaneous supplies.....	1581	7.63
Minneapolis Gas Light Co., gas.....	1645	1.96
Minneapolis Pharmacy Co., drugs.....	1680	15.34
Andrus Building Pharmacy, vials and corks.....	1681	12.00
Petty bills, miscellaneous supplies.....	1699	2.75
Petty bills, miscellaneous supplies.....	1764	4.65
Total		\$2,549.38

THE COLLEGE OF DENTISTRY.

CURRENT EXPENSE.

	No. Voucher.	Amount.
William P. Dickinson, acting dean.....	...	\$1,650.00
Thomas E. Weeks, professor.....	...	1,600.00
Thomas B. Hartzell, professor.....	...	1,000.00
Oscar A. Weiss, professor.....	...	1,500.00
Alfred Owre, instructor.....	...	1,500.00
Charles A. Van Duzee, instructor.....	...	1,500.00
Hugh M. Reid, instructor.....	...	1,000.00
Frank R. Wright, instructor.....	...	300.00
Mary I. Hartzell, instructor.....	...	300.00
E. Franklyn Hertz, instructor.....	...	600.00
James O. Wells, instructor.....	...	600.00
John Irwin, storekeeper.....	...	500.00
Gus Wickeknburg, janitor.....	...	495.00
Minneapolis Gas Light Co., gas.....	111	4.99
The University Press, printing.....	121	19.00
Lyman-Eliei Drug Co., drugs.....	155	24.13
Jas. T. Ingersoll, teeth.....	165	527.64
M. F. Patterson, dental materials.....	166	77.22
A. B. Farnham & Co., dental materials.....	170	62.00
W. K. Morrison & Co., hardware.....	172	26.00
Glessner & Washburn, shades.....	175	19.92
Marshall-Shafer-Pierce Co., dental supplies.....	176	194.27
Minneapolis Gas Light Co., gas.....	272	14.13
James T. Ingersoll, dental materials.....	336	21.10
M. F. Patterson, dental materials.....	337	300.42
Marshall-Shafer-Pierce Co., dental materials.....	338	29.90
Minneapolis Gas Light Co., gas.....	450	22.45
Lyman-Eliei Drug Co., drugs.....	464	8.68
Marshall-Shafer-Pierce Co., dental supplies.....	499	9.54
M. F. Patterson, dental supplies.....	501	78.08
W. K. Morrison & Co., hardware.....	508	3.75
W. K. Morrison & Co., hardware.....	653	3.00
Marshall-Shafer-Pierce Co., dental supplies.....	682	42.95
M. F. Patterson, dental supplies.....	685	64.32
Jas. T. Ingersoll, dental supplies.....	686	32.00
R. Alexander, book case.....	704	30.00
Minneapolis Gas Light Co., gas.....	750	22.19
W. K. Morrison & Co., hardware.....	828	15.55
The University Press, stationery.....	857	13.25
Lyman-Eliei Drug Co., drugs.....	888	8.35
M. F. Patterson, dental supplies.....	892	75.26
Marshall-Shafer-Pierce Co., dental supplies.....	893	30.79
Minneapolis Gas Light Co., gas.....	1005	10.08
Minneapolis Gas Light Co., gas.....	1006	10.56
M. F. Patterson, dental supplies.....	1041	35.76
Marshall-Shafer-Pierce Co., dental supplies.....	1044	364.04
W. K. Morrison & Co., hardware.....	1167	13.80
M. F. Patterson, dental supplies.....	1212	156.57
Marshall-Shafer-Pierce Co., dental supplies.....	1214	43.29
J. H. Constantine, cabinet work.....	1225	94.70
The Minneapolis Gas Light Co., gas.....	1279	13.48
The Minneapolis Gas Light Co., gas.....	1346	12.68
Marshall-Shafer-Pierce Co., dental supplies.....	1379	51.16
M. F. Patterson, dental supplies.....	1380	368.35
Minneapolis Gas Light Co., gas.....	1492	11.56
Marshall-Shafer-Pierce Co., dental supplies.....	1539	22.59
M. F. Patterson, dental supplies.....	1541	108.13
Minneapolis Gas Light Co., gas.....	1645	3.92
W. K. Morrison & Co., hardware.....	1669	3.25
Total		\$15,649.50

THE COLLEGE OF PHARMACY.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Frederick J. Wulling, dean.....	...	\$2,400.00
Bernard L. Leubner, instructor.....	...	750.00
Edward M. Freeman, instructor.....	...	600.00
C. W. Colburn, janitor.....	...	240.00
Minneapolis Gas Light Co., gas.....	56	3.28

	No. Voucher.	Amount
Minneapolis Gas Light Co., gas.....	111	3.70
The University Book Store, books.....	127	3.69
Lyman-Eliei Drug Co., drugs.....	155	1.93
Noyes Bros. & Cutler, drugs.....	156	8.36
D. W. Sprague, accountant, freight, express, postage and extra help	206	1.07
Petty bills, miscellaneous supplies.....	201	3.75
Minneapolis Gas Light Co., gas.....	272	7.02
Lyman-Eliei Drug Co., drugs.....	314	37.91
Simonson Bros. Manufacturing Co., trays.....	339	6.00
Eimer & Amend, reagent bottles.....	340	21.51
Noyes Bros. & Cutler, drugs.....	355	6.09
Frederick J. Wulling, miscellaneous supplies.....	363	56.35
Minneapolis Gas Light Co., gas.....	450	7.11
The University Book Store, stationery.....	462	5.08
Lyman-Eliei Drug Co., drugs.....	464	12.97
Noyes Bros. & Cutler, drugs.....	519	68.78
Whitall, Tatum & Co., drugs.....	533	29.55
E. R. Squibb & Sons, ephemeris.....	535	6.00
The Fred Macey Co., book cases.....	548	10.00
Bausch & Lomb Optical Co., physical apparatus.....	560	27.11
D. W. Sprague, accountant, freight, express, postage and extra help	568	6.87
The Great Western Printing Co., stationery.....	633	11.25
James W. Day, ice.....	637	9.45
Lyman-Eliei Drug Co., drugs.....	678	114.36
Minneapolis Dry Goods Co., hardware.....	692	8.38
John Wulling, Sr., charts.....	705	25.00
Minneapolis Gas Light Co., gas.....	750	7.50
Noyes Bros. & Cutler, drugs.....	852	30.23
The University Book Store, stationery.....	859	26.87
Lyman-Eliei Drug Co., drugs.....	888	18.03
Lehn & Fink, drugs.....	899	70.90
Minneapolis Gas Light Co., gas.....	1005	5.04
Minneapolis Gas Light Co., gas.....	1006	4.00
Noyes Bros. & Cutler, drugs.....	1047	45.52
Lyman-Eliei Drug Co., drugs.....	1055	18.19
F. J. Wulling, miscellaneous supplies.....	1075	54.49
D. W. Sprague, accountant, freight, express, postage and extra help	1104	1.10
Geo. Douglas Head, instruction in clinical microscopy.....	1216	100.00
The American Can Co., cans.....	1218	23.40
Noyes Bros. & Cutler, drugs.....	1219	5.12
Lyman-Eliei Drug Co., drugs.....	1222	35.43
W. P. Dahlin, binding journals.....	1224	14.50
The Century Atlas, one atlas.....	1277	8.75
The Minneapolis Gas Light Co., gas.....	1279	4.18
Petty bills, miscellaneous supplies.....	1285	3.89
Minneapolis Gas Light Co., gas.....	1346	4.18
Lyman-Eliei Drug Co., drugs.....	1372	17.86
The Caprigraph Co., sanitary still.....	1383	12.00
Noyes Bros. & Cutler, drugs.....	1389	3.51
Eimer & Amend, heater.....	1402	6.00
F. J. Stokes Machine Co., tablet machine.....	1403	22.50
The University Book Store, stationery.....	1404	12.60
D. W. Sprague, accountant, freight, express, postage and extra help	1439	1.09
Minneapolis Gas Light Co., gas.....	1492	4.25
Lyman-Eliei Drug Co., drugs.....	1527	.44
The University Book Store, books.....	1537	3.20
Frederick J. Wulling, clerical work, etc.....	1561	117.32
D. W. Sprague, accountant, freight, express, postage and extra help	1582	.45
Minneapolis Gas Light Co., gas.....	1645	3.26
Total		\$5,178.37

SCHOOL OF AGRICULTURE.

CURRENT EXPENSE.

	No. Voucher.	Amount.
William W. Liggett, dean.....	...	\$1,800.00
John A. Vye, secretary.....	...	750.00
Frederick D. Tucker, principal.....	...	1,800.00
James M. Drew, professor.....	...	1,050.00
William Boss, mechanical engineer.....	...	620.13
Virginia C. Meredith, preceptress.....	...	1,500.00
William Robertson, instructor.....	...	1,000.00

	No. Voucher.	Amount.
Chas. R. Aldrich, instructor.....	...	600.00
Chas. F. Keyes, instructor.....	...	600.00
Edward W. Mahood, instructor.....	...	900.00
J. L. Sheppard, instructor.....	...	600.00
Mrs. Blair, instructor.....	...	600.00
Grace B. Whitbridge, instructor.....	...	180.00
A. C. Koerner, instructor.....	...	240.00
Mary L. Bull, instructor.....	...	360.00
E. L. Middlebrook, instructor.....	...	120.00
Sophia Pendergast, instructor.....	...	900.00
Edward H. Riley, instructor.....	...	113.87
Assistants and laborers.....	...	4,310.68
Students' payrolls .....	...	809.97
Forman, Ford & Co., glass and turpentine.....	14	20.12
Gruenhagen Bros., hardware.....	16	.45
Harrison & Smith Co., 500 letter heads.....	17	2.75
Janney, Semple, Hill & Co., hardware.....	18	5.45
Metropolitan Music Co., band supplies.....	21	6.16
Minneapolis Iron Stove Co., bolts.....	22	14.53
Harley Parker, work on carpenter shop.....	30	5.23
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	33	12.42
John A. Schlener & Co., stationery.....	34	4.01
Brooks Bros., lumber.....	44	58.22
Herbert Doble, carpenter work.....	45	8.25
Gruenhagen Bros., hardware.....	47	17.51
W. G. Johnson, carpenter work.....	48	28.60
Victor A. Lundberg, repairing plastering.....	49	15.00
W. K. Morrison & Co., hardware.....	51	18.48
J. A. Vye, sundry disbursements.....	53	59.30
American Book Co., books.....	208	73.60
O. A. Anderson, painting.....	209	50.10
Brooks Bros., lumber.....	210	1.39
Boutell Bros., wash stand, etc.....	211	8.80
Butler, Sheldon & Co., thirty books, "Physics".....	214	30.00
Eagle Printing Co., printing forms.....	218	26.00
Forman, Ford & Co., paint materials.....	220	56.69
Gruenhagen Bros., hardware.....	221	2.80
D. C. Heath & Co., books.....	222	56.75
W. G. Johnson, carpenter work.....	226	45.60
Janney, Semple, Hill & Co., hardware.....	227	133.35
Orange Judd Co., 100 "Study of Breeds".....	228	90.00
W. K. Morrison & Co., hardware.....	232	7.50
Munson Stationery Co., stationery.....	233	11.60
Nicols & Dean, wagon materials.....	237	101.95
S. E. Olson & Co., shades and rollers.....	238	17.33
Pittsburgh Plate Glass Co., glass.....	240	12.81
Phoenix Chair Co., chairs.....	241	5.25
The Plumbing & Steamfitting Supplies Co., plumbing supplies...	243	13.85
Adolph Poirier, brooms.....	244	12.90
Salisbury & Satterlee, iron bedsteads, etc.....	247	145.30
Fred J. Scott, payrolls.....	248	3.50
John A. Schlener & Co., stationery.....	252	9.75
Twin City Iron Works, 170 feet rope.....	253	8.61
R. B. Thompson, lumber.....	254	57.27
The University Book Store, stationery.....	255	4.39
Webb Publishing Co., 100 copies "Modern Sewing and Garment Drafting"	256	120.00
Willwersheid Co., cards and muslin.....	257	9.75
Elvin Strom, work at laboratory.....	260	15.30
Herbert Doble, work at laboratory and shop.....	261	48.95
J. A. Vye, sundry disbursements.....	262	83.82
Harley Parker, work at drill hall.....	263	14.97
American Book Co., 24 copies Gray's Botany.....	385	34.56
Brooks Bros., lumber.....	387	3.00
Elizabeth Biery, work at School of Agriculture.....	389	12.00
Miss Mary Moulton Cheney, five charts.....	392	4.00
Dearborn Drug & Chemical Works, two barrels oil.....	395	43.35
W. J. Dyer & Bro., rent and repairs of piano, and music.....	396	69.00
Herbert Doble, work at Home Building.....	397	6.02
Electrical Engineering Co., electric supplies.....	398	36.03
Electrical Engineering Co., electric supplies.....	399	5.68
Eagle Printing Co., printing.....	400	37.75
Forman, Ford & Co., glass.....	401	35.91
General Electric Co., 200 lamps.....	402	40.80
Frank W. Greaves & Co., one dozen squares.....	403	11.00
W. G. Johnson, carpenter work.....	406	30.60
Leslie & McAfee, paper.....	408	78.94
Minneapolis Dry Goods Co., shades and cord.....	414	16.67
Munson Stationery Co., stationery.....	415	2.50
W. K. Morrison & Co., hardware.....	416	5.54
W. K. Morrison & Co., hardware.....	417	30.93

	No. Voucher.	Amount.
Northwestern Fuel Co., coal.....	421	570.32
Northern Machinery Co., 16 blanks.....	423	4.00
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	430	24.79
R. A. Pike & Co., 400 leg bands.....	431	4.00
The Subscription News Co., magazines.....	436	22.70
R. B. Thompson, lumber.....	437	113.34
Union Railway Storage Co., bags and cement.....	438	5.70
J. A. Vye, sundry disbursements.....	441	43.14
Gruenhagen Bros., hardware.....	444	11.58
Brooks Bros., lumber.....	577	16.63
Electrical Engineering Co., electrical supplies.....	581	5.24
Electrical Engineering Co., electrical supplies.....	582	9.25
Farm, Stock & Home Co., 75 copies Fruit Gr.....	584	22.50
Forman, Ford & Co., glass, etc.....	586	9.94
Farm Students' Review, advertising.....	587	6.00
General Electric Co., 230 lamps.....	593	49.60
Henry W. Howling, mountain birds.....	594	30.00
W. G. Johnson, work in hall, barn, shop.....	597	26.60
Janney, Semple, Hill & Co., hardware.....	598	16.00
Leslie & McAfee, paper.....	602	20.13
Victor A. Lundberg, mason work on laboratory.....	603	20.95
Wm. M. Liggett, one-half expense annual commission.....	604	56.95
The Macmillan Co., books.....	607	57.21
McGill-Warner Co., 100 Forestry Books.....	609	20.00
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	617	58.48
Fred J. Scott, printing.....	619	2.75
John A. Schlener & Co., stationery.....	620	7.05
The University Press, stationery.....	626	6.10
Wyckoff, Seamans & Benedict, typewriter supplies.....	628	5.30
Wyckoff, Seamans & Benedict, typewriter supplies.....	629	3.05
J. A. Vye, sundry disbursements.....	632	81.99
Brooks Bros., lumber.....	756	5.72
F. L. Delaney, team Percheron horses.....	759	200.00
The Eagle Printing Co., 500 programs.....	760	5.25
Forman, Ford & Co., glass.....	761	8.07
C. W. Gray Printing Co., letter heads and envelopes.....	763	11.20
Harrison & Smith Co., ledger.....	766	7.50
Victor A. Lundberg, plastering dining hall.....	772	5.50
Lyman-Eliel Drug Co., drugs.....	774	2.80
The Munson Stationery Co., 12 gross pens.....	777	6.75
Minneapolis Iron Stove Co., steel.....	780	26.53
W. S. Nott Co., eight valves.....	783	3.20
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	789	21.65
John A. Schlener & Co., stationery.....	796	2.85
Steward & Hutcheon, castings.....	798	6.43
R. B. Thompson, lumber.....	799	29.51
J. A. Vye, coal.....	800	15.40
Wyckoff, Seamans & Benedict, regents' carbons.....	802	.50
Ginn & Co., books.....	808	38.40
J. A. Vye, sundry disbursements.....	809	31.48
American Book Co., 74 books.....	943	51.66
Allyn & Bacon, books.....	944	5.60
Brooks Bros., lumber.....	947	13.22
Boutell Bros., mattress and spring.....	948	7.25
The Eagle Printing Co., printing.....	959	34.50
Field, Schlick & Co., dry goods.....	960	28.62
Gruenhagen Bros., hardware.....	962	23.65
Henry Holt & Co., 125 Chemistry Books.....	966	77.33
Orange Judd Co., 50 "Study of Breeds".....	972	45.00
Leslie & McAfee, paper.....	974	3.00
Minneapolis Iron Stove Co., steel.....	976	27.70
Nicols & Dean, steel and rasps.....	983	18.43
S. E. Olson & Co., shades, magazine subscriptions, etc.....	986	11.95
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	987	12.26
John A. Schlener & Co., stationery.....	991	7.25
R. B. Thompson, lumber.....	993	23.50
J. A. Vye, dinners for two delegations.....	994	26.25
Wyckoff, Seamans & Benedict, typewriter supplies.....	995	2.25
F. S. Webster Co., ink.....	997	4.65
Webb Publishing Co., 75 "Vegetable Gardening".....	998	75.00
N. W. Fuel Co., coal.....	1001	437.20
J. A. Vye, sundry disbursements.....	1002	20.96
J. A. Vye, sundry disbursements.....	1003	19.27
Ainsworth & Co., booklets.....	1108	7.02
Brooks Bros., lumber.....	1110	8.96
W. J. Dyer & Bro., three months rent of piano.....	1114	12.50
The Eagle Printing Co., blank books.....	1115	10.55
Electrical Engineering Co., electrical supplies.....	1116	12.71
Field, Schlick & Co., two rugs.....	1118	15.00
Forman, Ford & Co., lights, glass.....	1119	3.90

	No. Voucher.	Amount.
John Leslie Paper Co., paper.....	1125	11.50
Minneapolis Photo Materials Co., solio.....	1129	.60
Metropolitan Music Co., cello, etc.....	1130	26.22
Minneapolis Dry Goods Co., shades.....	1132	5.92
Nicols & Dean, horseshoes, etc.....	1135	8.31
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	1142	9.35
St. Anthony Hardware Co., hardware.....	1143	8.47
John A. Schlener & Co., stationery.....	1146	3.78
J. H. Smith, two novelty stoves.....	1147	25.00
R. B. Thompson, lumber.....	1148	30.30
J. A. Vye, sundry disbursements.....	1161	49.58
J. A. Vye, sundry disbursements.....	1162	3.04
Walter S. Booth & Son, 40 volumes township manuals.....	1293	20.00
Brooks Bros., lumber.....	1294	5.93
Chemical Publishing Co., 12 "Chemistry of Soils".....	1297	12.60
Elmer E. Calderwood, six pullets.....	1298	6.00
W. J. Dyer & Bro., moving piano.....	1300	5.00
Louis Dreka, 68 diplomas.....	1301	85.00
Electrical Engineering Co., electrical supplies.....	1302	7.51
Forman, Ford & Co., glass.....	1303	15.12
The John Leslie Paper Co., paper.....	1308	6.57
Minneapolis Iron Stove Co., steel.....	1311	8.26
W. K. Morrison & Co., hardware.....	1313	8.59
Metropolitan Music Co., orchestra.....	1315	29.00
The Munson Stationery Co., paper and carbon.....	1316	2.32
Nicols & Dean, mild steel.....	1317	9.23
Northwestern Fuel Co., coal.....	1319	42.31
Plumbing & Steamfitting Supplies Co., hardware.....	1323	3.22
Rickard & Gruman, 63 diplomas.....	1325	31.50
D. W. Sprague, accountant, sundry disbursements.....	1327	11.95
Fred J. Scott, 1,000 programs.....	1328	11.50
R. B. Thompson, lumber.....	1329	27.48
John A. Schlener & Co., stationery.....	1330	8.55
St. Anthony Hardware Co., hardware.....	1331	5.20
Standard Oil Co., gasoline.....	1333	6.25
J. A. Vye, sundry disbursements.....	1335	74.80
Crescent Steel Co., crescent steel.....	1445	24.20
The Munson Stationery Co., ribbon.....	1463	2.50
McGill-Warner Co., 2,000 pamphlets, agricultural edition.....	1465	45.00
John A. Schlener & Co., stationery.....	1474	4.40
St. Anthony Hardware Co., hardware.....	1477	8.38
Fred J. Scott, 1,000 "Invitation to School".....	1479	18.50
J. A. Vye, treasurer, entertaining delegates.....	1481	48.25
Plumbing & Steamfitting Supplies Co., solder, etc.....	1486	3.55
J. A. Vye, sundry disbursements.....	1487	46.20
Brooks Bros., lumber.....	1584	13.16
W. K. Morrison & Co., hardware.....	1601	4.05
McGill-Warner Co., printing.....	1602	1.00
C. W. Meneilly, groceries.....	1603	13.60
St. Paul Book & Stationery Co., six copies Geometry.....	1614	6.75
St. Anthony Hardware Co., hardware.....	1616	10.06
J. A. Vye, sundry disbursements.....	1624	11.82
Dearborn Drug & Chemical Works, one-half barrel oil.....	1709	14.57
The John Leslie Paper Co., paper.....	1717	11.00
Noyes Bros. & Cutler, alcohol.....	1723	10.42
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	1729	1.54
Forman, Ford & Co., glass.....	1788	8.71
John Leslie Paper Co., paper.....	1794	2.10
John Leslie Paper Co., paper.....	1795	4.04
Phoenix Chair Co., chairs.....	1800	52.00
J. A. Vye, sundry disbursements.....	1817	2.32
Total		\$24,716.00

Division of Agriculture.

CURRENT EXPENSE.

	No. Voucher.	Amount.
W. M. Hayes, professor.....	...	\$999.92
Andrew Boss, foreman.....	...	560.00
J. A. Vye, secretary, students' payrolls.....	...	64.77
Adolph Poirier, barn and office brooms.....	244	5.95
E. E. Peterson, numbering chairs.....	428	3.96
J. A. Vye, secretary, sundry disbursements.....	632	3.90
Wyckoff, Seamans & Benedict, paper.....	996	2.40
N. W. Fuel Co., coal.....	1001	200.00
C. L. Moffat, horseshoeing.....	1134	31.30
Total		\$1,872.29

Division of Chemistry.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Harry Snyder, professor.....	...	\$1,299.96
Ralph Hoagland, laborer.....	...	227.60
M. G. Ellerbe, stenographer.....	...	341.00
John A. Hummel, instructor.....	...	183.37
Isabel D. Parker, instructor.....	...	420.00
Mary M. Cheney, laborer.....	...	15.00
Baker & Adamson Chemical Co., chemicals.....	7	58.50
Electrical Engineering Co., electrical supplies.....	12	6.18
Gruenhagen Bros., hardware.....	16	.90
Leslie & McAfee, paper.....	19	6.00
Noyes Bros. & Cutler, drugs.....	28	2.80
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	33	2.26
John A. Schlener & Co., stationery.....	34	5.50
Union Railway Storage Co., lime and sewer pipe.....	39	7.70
Herbert Doble, carpenter work.....	45	33.00
W. G. Johnson, carpenter work.....	48	9.50
Victor A. Lundberg, plastering in laboratory.....	49	35.00
W. K. Morrison & Co., hardware.....	51	2.33
Elvin Strom, covering pipe in laboratory.....	52	13.50
Bramblett & Beygeh, zinc etchings.....	213	10.50
The Chemical Publishing Co., 50 copies "Dairying".....	215	50.00
Eimer & Amend, physical apparatus.....	219	123.44
Richards & Co., laboratory supplies.....	246	82.05
John A. Schlener & Co., stationery.....	252	14.50
H. Crawford Co., 75 covers.....	391	7.50
Eagle Printing Co., printing.....	400	38.75
W. G. Johnson, work at chemical laboratory.....	406	12.00
J. A. Vye, secretary, sundry disbursements.....	441	27.82
Noyes Bros. & Cutler, drugs.....	613	9.54
Richards & Co., Limited, chemical apparatus.....	618	115.66
G. E. Strom, work chemical laboratory.....	623	9.25
R. B. Thompson, lumber.....	625	60.48
Brooks Bros., lumber.....	756	6.30
Forman, Ford & Co., shellac and alcohol.....	761	5.00
W. G. Johnson, work at chemical laboratory.....	770	21.85
Victor A. Lundberg, plastering chemical laboratory.....	772	27.50
J. S. Malberg, work chemical laboratory.....	779	6.22
John A. Schlener & Co., stationery.....	796	12.50
Wyckoff, Seamans & Benedict, black ink.....	802	1.50
J. A. Vye, secretary, sundry disbursements.....	809	7.20
Eimer & Amend, chemicals.....	957	63.64
The Eagle Printing Co., printing.....	959	2.75
Leslie & McAfee, paper.....	974	4.07
Noyes Bros. & Cutler, drugs.....	982	5.84
John A. Schlener & Co., stationery.....	991	5.90
Standard Oil Co., gasoline.....	992	31.54
Wyckoff, Seamans & Benedict, two quires stencil.....	995	4.00
N. W. Fuel Co., coal.....	1001	400.00
J. A. Vye, secretary, sundry disbursements.....	1002	14.09
John A. Schlener & Co., varnish.....	1146	.40
J. A. Vye, secretary, sundry disbursements.....	1161	6.15
Noyes Bros. & Cutler, drugs.....	1318	5.46
The John Leslie Paper Co., paper.....	1462	6.00
Noyes Bros. & Cutler, drugs.....	1473	4.38
J. A. Vye, secretary, sundry disbursements.....	1487	4.79
Eimer & Amend, physical apparatus.....	1588	31.60
The John Leslie Paper Co., paper.....	1599	5.00
The S. S. White Dental Manufacturing Co., 100 gallons oxygen.....	1622	17.25
J. A. Vye, secretary, sundry disbursements.....	1624	5.50
J. A. Vye, secretary, sundry disbursements.....	1627	.80
Noyes Bros. & Cutler, alcohol.....	1723	2.85
John Leslie Paper Co., paper.....	1794	2.52
J. A. Vye, secretary, sundry disbursements.....	1816	5.00
John A. Schlener & Co., stationery.....	1818	4.00
Total		\$3,953.19

Division of Entomology.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Otto Lugger, professor.....	...	\$1,000.00
W. G. Johnson, carpenter work.....	48	5.00
N. W. Star Oil Co., shellac and oil.....	426	17.50
Northwestern Fuel Co., coal.....	1001	125.00
Total		<u>\$1,147.50</u>

Division of Horticulture.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Samuel B. Green, professor.....	...	\$1,100.00
R. S. Mackintosh, assistant.....	...	528.75
Laborers .....	...	1,152.33
Students' payrolls .....	...	49.17
John A. Schlener & Co., stationery.....	252	1.75
Bausch & Lomb Optical Co., lenses and stand.....	388	39.87
The Jewell Nursery Co., 2,000 apple roots.....	596	10.00
John A. Schlener & Co., stationery.....	620	.95
J. A. Vye, secretary, sundry disbursements.....	632	28.76
Broni's Cutlery Co., 60 pudding knives.....	757	10.00
Gruenhagen Bros., hardware.....	764	.24
Minneapolis Photo Materials Co., photo materials.....	775	6.25
W. K. Morrison & Co., hardware.....	778	9.26
N. W. Fuel Co., coal.....	784	379.56
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	789	1.69
L. B. Prince, books.....	790	7.50
The Randolph Paper Box Co., two compartment boxes.....	792	16.50
Swahn Pottery Manufacturing Co., 1,500 pots.....	795	15.80
Wyckoff, Seamans & Benedict, letter book.....	802	2.50
J. A. Vye, secretary, sundry disbursements.....	809	8.96
Bausch & Lomb Optical Co., physical apparatus.....	949	9.59
Gardner-Warner Hardware Co., key and locks.....	963	14.56
W. K. Morrison & Co., hardware.....	979	11.39
McGill-Warner Co., printing.....	980	3.50
Northrup, King & Co., seeds.....	984	5.55
John A. Schlener & Co., stationery.....	991	6.85
Zimmerman Bros., chemicals.....	999	3.45
McClellan Paper Co., paper.....	1000	7.25
N. W. Fuel Co., coal.....	1001	220.44
J. A. Vye, secretary, sundry disbursements.....	1002	17.34
Brooks Bros., lumber.....	1110	8.29
Forman, Ford & Co., lights glass.....	1119	15.24
John Leslie Paper Co., twine.....	1125	1.40
W. K. Morrison & Co., hardware.....	1131	6.80
Northwestern Foundry, foundry supplies.....	1136	6.11
Northwestern Mantel Co., 75 pieces marble.....	1137	7.50
Noyes Bros. & Cutler, drugs.....	1139	3.09
St. Anthony Hardware Co., hardware.....	1143	3.25
Swahn Pottery Manufacturing Co., 400 pots.....	1145	6.66
J. M. Thorburn & Co., flower seeds.....	1149	6.62
Williams & Sons Co., pot labels.....	1152	7.05
Zimmerman Bros., lantern slides, etc.....	1154	7.12
J. A. Vye, secretary, sundry disbursements.....	1161	5.71
Bemis Bros. Bag Co., 50 yards burlap.....	1292	2.25
Forman, Ford & Co., glass.....	1303	7.42
Keuffel & Esser Co., one pair calipers.....	1307	4.25
The John Leslie Paper Co., paper.....	1308	5.06
W. K. Morrison & Co., hardware.....	1313	.40
Noyes Bros. & Cutler, drugs.....	1318	.84
Queen & Co., physical apparatus.....	1324	19.28
St. Anthony Hardware Co., hardware.....	1331	1.78
Whitall, Tatum & Co., drugs.....	1336	5.40
Mary Moulton Cheney, drawing 10 charts.....	1447	7.50
Zimmerman Bros., photographers' supplies.....	1485	4.15
J. A. Vye, secretary, sundry disbursements.....	1487	20.44
Vilmoun Andrieux & Co., books.....	1488	82.10

	No. Voucher.	Amount.
Janney, Semple, Hill & Co., hardware.....	1595	5.00
Northrup, King & Co., grass seed.....	1607	7.94
J. A. Vye, secretary, sundry disbursements.....	1624	2.40
J. A. Vye, secretary, sundry disbursements.....	1627	2.05
The E. G. Hill Co., plants.....	1628	7.00
W. S. Nott Co., hose.....	1725	20.60
J. A. Vye, secretary, sundry disbursements.....	1817	.50
Total		\$3,960.96

Division of Animal Husbandry.**CURRENT EXPENSE.**

	No. Voucher.	Amount.
Thomas Shaw, professor.....	...	\$999.96
Lyman-Eliel Drug Co., drugs.....	774	22.03
N. W. Fuel Co., coal.....	1001	125.00
Total		\$1,146.99

Division of Dairy Husbandry.**CURRENT EXPENSE.**

	No. Voucher.	Amount.
T. L. Haecker, professor.....	...	\$900.00
William Boss, mechanical engineer.....	...	70.77
E. W. Major, assistant.....	...	999.96
B. D. White, instructor.....	...	75.00
H. D. Sondergaard, instructor.....	...	75.00
Samuel Haugdahl, instructor.....	...	75.00
A. J. Glover, instructor.....	...	75.00
P. S. Parker, instructor.....	...	27.50
Assistants and laborers.....	...	2,521.86
Students' payrolls .....	...	629.90
Diamond Elevator & Milling Co., feed.....	11	31.00
C. W. Gray 1,000 blanks, cheese work.....	15	4.75
Harley Parker, work on silo.....	30	3.75
Pillsbury-Washburn F. M. Co., feed.....	32	25.00
Brooks Bros., lumber.....	44	79.81
Herbert Doble, carpenter work.....	45	22.55
Elvin Strom, building silo.....	52	4.05
J. A. Vye, secretary, sundry disbursements.....	53	43.62
Thos. Hogan, carpenter work on silo.....	54	23.92
Archer & Co., oil meal.....	207	27.85
Brooks Bros., lumber.....	210	6.25
Diamond Elevator & Milling Co., feed.....	216	48.58
Gruenhagen Bros., hardware.....	221	2.75
Janney, Semple, Hill & Co., hardware.....	227	17.20
Leslie & McAfee, paper.....	229	3.26
Minneapolis Photo Materials Co., photo materials.....	235	3.55
Pillsbury-Washburn F. M. Co., feed.....	242	49.00
Standard Oil Co., gasoline.....	250	2.50
J. A. Vye, secretary, sundry disbursements.....	262	51.96
Archer & Co., 2,000 pounds oil meal.....	384	26.10
Brooks Bros., shavings.....	387	10.00
Creamery Package Manufacturing Co., brushes, bottles, etc.....	390	36.90
Diamond Elevator Milling Co., corn.....	394	68.30
Eagle Printing Co., printing.....	400	7.00
J. F. Grant, four Polled Angus heifers.....	405	100.00
Lyman-Eliel Drug Co., one barrel sal soda.....	409	4.31
Pillsbury-Washburn F. M. Co., feed.....	429	36.90
E. E. Peterson, numbering chairs.....	428	5.40
Standard Oil Co., gasoline.....	434	4.25
Union Railway Storage Co., one sack plaster.....	438	1.00
The Wagner Glass Works, milk testers.....	440	23.00
J. A. Vye, secretary, sundry disbursements.....	441	23.20
Ames & Rollinson Co., 100 diplomas.....	445½	110.00
Brooks Bros., four loads shavings.....	575	5.00
Creamery Package Manufacturing Co., six dozen jars.....	578	6.60

	No. Voucher.	Amount.
Freeman & Lanpher, bran.....	585	18.75
The N. K. Fairbank Co., five tons meal.....	588	107.50
The Glucose Sugar Refining Co., seven "Gluten".....	589	182.70
Gruenhagen Bros., hardware.....	591	9.25
Harrison & Smith Co., stationery.....	595	18.25
Minnesota Soap Co., 186 pounds fig soap.....	610	9.30
Northern Linseed Oil Co., 1,000 pounds flaxseed.....	612	40.00
Pillsbury-Washburn F. M. Co., bran.....	616	12.00
Standard Oil Co., gasoline.....	624	8.51
Western Linseed Co., 2,000 pounds oil meal.....	627	26.60
J. A. Vye, secretary, sundry disbursements.....	632	73.00
Brooks Bros., lumber.....	756	23.41
Foreman, Ford & Co., window glass.....	761	.77
Freeman & Lanpher, 3,000 pounds bran.....	762	18.75
Gruenhagen Bros., hardware.....	764	2.05
Harrison & Smith Co., dairy reports.....	766	6.00
Leslie & McAfee, paper.....	771	3.50
McGill-Warner Co., 500 feed records.....	776	6.50
Northwestern Fuel Co., coal.....	784	500.00
Pierce Bros., oats.....	787	130.86
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	789	11.22
Standard Oil Co., gasoline.....	794	7.61
Western Linseed Co., 2,000 pounds oil meal.....	807	25.10
J. A. Vye, secretary, sundry disbursements.....	809	32.84
Brooks Bros., shavings.....	947	1.25
The Crescent Creamery Co., 8,581 gallons milk.....	950	1,287.15
Creamery Package Manufacturing Co., creamery supplies.....	952	72.10
The Eagle Printing Co., printing.....	959	14.50
Freeman & Lanpher, 9,000 pounds bran.....	961	58.00
Gruenhagen Bros., hardware.....	962	2.15
Glucose Sugar Refining Co., one ton oil meal.....	964	25.00
E. V. King & Co., straw.....	971	14.30
Plumbing & Steamfitting Supplies Co., pipe and ells.....	987	19.82
Pierce Bros., corn.....	988	199.60
Standard Oil Co., gasoline.....	992	11.57
J. A. Vye, secretary, sundry disbursements.....	1002	26.40
Brooks Bros., lumber.....	1110	2.35
Douglass & Co., 2,000 pounds oil meal.....	1113	25.10
Freeman & Lanpher, mill feed.....	1120	38.00
Wm. F. Lindig, manager, 3,800 pounds ice.....	1124	5.70
Lyman-Eliel Drug Co., drugs.....	1126	19.36
Standard Oil Co., gasoline.....	1144	9.03
Western Linseed Co., one ton oil meal.....	1150	25.10
C. E. Wales, one Jersey bull.....	1151	75.00
J. A. Vye, secretary, sundry disbursements.....	1161	49.74
Freeman & Lanpher, mill feed.....	1304	52.50
Janney, Semple, Hill & Co., hardware.....	1305	1.00
The John Leslie Paper Co., paper.....	1308	.90
Victor A. Lundberg, cementing in Dairy Hall.....	1309	9.50
Rickard & Gruman, 84 diplomas.....	1325	42.00
St. Anthony Hardware Co., hardware.....	1331	3.65
Standard Oil Co., gasoline.....	1333	12.34
J. A. Vye, secretary, sundry disbursements.....	1335	44.23
Creamery Package Manufacturing Co., boxes and cloth circles.....	1446	4.98
Brooks Bros., two loads shavings.....	1449	2.50
Diamond Elevator & Milling Co., 50 bushels corn.....	1450	21.25
Freeman & Lanpher, mill feed.....	1453	46.15
Harrison & Smith Co., 2,000 letter heads.....	1456	6.50
R. R. Howell & Co., axle and wheels.....	1457	3.50
Janney, Semple, Hill & Co., hardware.....	1459	4.80
McGill-Warner Co., 2,000 posters.....	1465	3.00
The Minnesota Soap Co., 278 pounds fig soap.....	1466	14.60
Olaf Olsen, upland hay.....	1474	141.08
St. Anthony Hardware Co., hardware.....	1477	1.60
Standard Oil Co., gasoline.....	1478	10.90
Upton & Shadewald, 4,070 pounds hay.....	1480	24.42
J. A. Vye, secretary, sundry disbursements.....	1487	29.32
Brooks Bros., lumber.....	1584	8.75
Creamery Package Manufacturing Co., sal soda and cheese boxes.....	1585	4.16
Central Avenue Feed Co., 2,340 pounds hay.....	1586	17.55
Freeman & Lanpher, mill feed.....	1589	37.50
Harrison & Smith Co., 4,000 blanks.....	1594	9.00
E. V. King & Co., 4,680 pounds hay.....	1597	32.76
The John Leslie Paper Co., paper.....	1599	13.88
Minneapolis Photo Materials Co., one gross solio.....	1600	2.65
Olof Olsen, upland hay.....	1609	53.50
Standard Oil Co., gasoline.....	1615	5.77
St. Anthony Hardware Co., hardware.....	1616	16.10
J. A. Vye, secretary, sundry disbursements.....	1624	35.05
J. A. Vye, secretary, sundry disbursements.....	1627	1.50

	No. Voucher.	Amount.
Brooks Bros., shavings.....	1705	6.25
Freeman & Lanpher, mill feed.....	1710	44.25
Standard Oil Co., gasoline.....	1730	8.14
St. Anthony Hardware Co., hardware.....	1733	5.32
Green & De Laittre Co., four barrels salt.....	1789	5.00
Lyman-Eliel Drug Co., drugs.....	1793	4.20
Freeman & Lanpher, mill feed.....	1812	83.05
T. L. Haecker, one horse.....	1813	75.00
J. A. Vye, secretary, sundry disbursements.....	1816	15.15
J. A. Vye, secretary, sundry disbursements.....	1817	4.23
W. S. Nott Co., belting.....	1824	4.90
Union Railway Storage Co., cement.....	1825	3.60
Total		\$10,602.97

Division of Veterinary.**CURRENT EXPENSE.**

	No. Voucher.	Amount
Myron H. Reynolds, professor.....	...	\$1,299.96
George Williamson, laborer.....	...	187.31
E. A. Palmer, laborer.....	...	58.07
J. A. Vye, secretary, students' payrolls.....	...	19.98
Theodore Anderson, 1,850 pounds hay.....	755	9.25
Pierce Bros., oats.....	787	12.34
Theodore Anderson, 1,842 pounds timothy.....	942	9.21
N. W. Fuel Co., coal.....	1001	125.00
Pierce Bros., oats and corn.....	1141	19.00
Theodore Anderson, 945 pounds hay.....	1155	4.72
Theodore Anderson, 2,860 pounds hay.....	1156	14.30
H. Crawford Co., 30 book covers.....	1296	3.60
Northwestern Fuel Co., coal.....	1319	42.19
St. Anthony Hardware Co., hardware.....	1331	1.45
Theodore Anderson, 945 pounds hay.....	1441	4.72
Theodore Anderson, 925 pounds hay.....	1442	4.63
The John Leslie Paper Co., paper.....	1462	1.62
Theodore Anderson, 1,200 pounds hay.....	1484	6.00
Theodore Anderson, 945 pounds hay.....	1625	4.72
Theodore Anderson, 929 pounds hay.....	1626	4.63
Brooks Bros., shavings.....	1705	1.25
John Leinen, 745 pounds oats.....	1716	7.45
Noyes Bros. & Cutler, drugs.....	1722	3.00
St. Anthony Hardware Co., hardware.....	1733	3.12
Noyes Bros. & Cutler, drugs.....	1810	29.12
Total		\$1,876.64

EXPERIMENT STATION.**General Station.****CURRENT EXPENSE.**

	No. Voucher.	Amount.
William M. Liggett, dean.....	...	\$1,800.00
John A. Vye, secretary.....	...	750.00
E. H. S. Darth, director, Owatonna Station.....	...	499.92
Alice M. Otis, stenographer.....	...	165.00
Kate W. Oliver, stenographer.....	...	720.00
William Boss, mechanical engineer.....	...	395.83
Anne Vilas, stenographer.....	...	540.00
Assistants and laborers.....	...	2,872.35
Students' payrolls .....	...	30.07
E. H. S. Darth, expenses Owatonna Station one year.....	10	191.65
Diamond Elevator & Milling Co., feed.....	11	29.50
Harrison & Smith Co., 1,000 letter heads.....	17	4.50
Leslie & McAfee, paper.....	19	5.15
N. W. Telephone Exchange Co., rent of telephone four months.	26	6.00
N. W. Fuel Co., coal.....	27	899.28

	No. Voucher.	Amount.
W. C. Palmer, sundry disbursements.....	29	5.72
Pierce Bros., feed.....	31	324.42
John A. Schlener & Co., stationery.....	34	4.01
C. C. Lyford, horse doctoring.....	43	57.00
Brooks Bros., lumber.....	44	11.20
Herbert Doble, carpenter work.....	45	4.13
Asa Paine, lumber and labor for floor.....	50	36.00
J. A. Vye, secretary, sundry disbursements.....	53	200.39
Brooks Bros., lumber.....	210	3.09
Eagle Printing Co., 1,000 letter heads.....	218	3.00
Andrew Johnson, mason work on silo.....	225	26.55
Leslie & McAfee, paper.....	229	.99
McGill-Warner Co., 16,000 bulletins.....	231	1,009.00
C. L. Moffatt, horseshoeing.....	234	4.50
N. W. Telephone Co., line rentals.....	236	16.00
Fred J. Scott, payrolls.....	248	3.50
Elvin Strom, work on silo.....	260	5.70
Herbert Doble, work at barn.....	261	14.85
J. A. Vye, secretary, sundry disbursements.....	262	157.65
Harley Parker, work at fern house.....	263	4.46
Forman, Ford & Co., plate glass.....	401	1.30
Leslie & McAfee, paper.....	408	39.04
Wm. M. Liggett, visit to Ames Agricultural College.....	410	17.42
Madeline M. Liggett, office work three months.....	412	20.00
Munson Stationery Co., stationery.....	415	2.50
W. K. Morrison & Co., hardware.....	417	.20
W. S. Nott Co., pieces leather.....	424	7.50
N. W. Telephone Exchange Co., line rental.....	425	8.10
B. A. Rose, band instruction one month.....	433	20.00
J. A. Vye, secretary, sundry disbursements.....	441	56.23
Brooks Bros., lumber.....	576	7.05
Victor A. Lundberg, mason work on barn.....	603	9.00
Wm. M. Liggett, one-half expense annual convention.....	604	56.95
Minneapolis Iron Store Co., hardware.....	606	46.32
C. L. Moffat, horseshoeing.....	608	10.50
R. L. Polk & Co., St. Paul Directory.....	614	5.00
Fred J. Scott, printing.....	619	5.50
Wyckoff, Seamans & Benedict, typewriter supplies.....	629	3.05
J. A. Vye, secretary, sundry disbursements.....	632	69.38
Wyckoff, Seamans & Benedict, typewriter supplies.....	628	3.05
F. L. Delaney, team Percheron horses.....	759	200.00
Forman, Ford & Co., glass.....	761	4.02
C. W. Gray Printing Co., letter heads and envelopes.....	763	11.20
Gruenhagen Bros., hardware.....	764	.90
W. M. Hays, traveling expenses.....	767	96.35
John W. Hull & Co., horseshoeing.....	768	9.25
S. B. Loye & Sons, horse furnishings.....	773	32.55
McGill-Warner Co., 2,000 bulletins.....	776	10.00
Minneapolis Iron Store Co., cast shoes.....	780	1.92
C. L. Moffat, horseshoeing.....	781	19.50
N. W. Telephone Exchange Co., line rental.....	782	8.00
W. S. Nott Co., eight valves.....	783	3.20
Olof Olsen, 41,160 pounds hay.....	785	185.22
Olof Olsen, 22,940 pounds hay.....	786	103.23
Pierce Bros., oats.....	781	173.73
Plumbing & Steamfitting Supplies Co., plumbing materials.....	789	21.66
F. C. Pryor, 19,090 pounds hay.....	791	86.93
John A. Schlener & Co., stationery.....	796	2.85
Standard Foundry, castings.....	798	6.44
J. A. Vye, secretary, coal.....	800	23.63
J. A. Vye, secretary, sundry disbursements.....	809	118.98
Association of American Agricultural Colleges & Experimental Stations, membership fees.....	945	10.00
Brooks Bros., lumber.....	947	14.43
Denney-Stevens Tag Co., 5,000 tags.....	955	6.25
The Eagle Printing Co., printing.....	959	162.80
Gruenhagen Bros., hardware.....	962	15.18
E. A. Henderson, annual rental forty acres.....	969	140.00
Leslie & McAfee, paper.....	974	3.55
Minneapolis Iron Store Co., sled pole.....	976	1.50
McGill-Warner Co., printing.....	980	67.50
N. W. Telephone Exchange Co., line rental one month.....	985	8.00
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	987	12.26
John A. Schlener & Co., one journal.....	991	3.70
F. S. Webster Co., ink.....	997	4.66
J. A. Vye, secretary, sundry disbursements.....	1002	134.82
Art Engraving Co., engraving bird's-eyes of grounds.....	1109	8.25
Boutell Bros., blankets.....	1111	10.25
Forman, Ford & Co., lights glass.....	1119	1.44
P. Howard, wagon materials.....	1121	6.35
W. H. Konantz & Co., one harness.....	1123	39.00

	No. Voucher.	Amount.
John Leslie Paper Co., 1,000 envelopes.....	1125	2.03
McGill-Warner Co., 500 annual reports.....	1127	122.00
N. W. Telephone Exchange Co., line rental one month.....	1138	8.00
Pierce Bros., oats and corn.....	1141	169.33
St. Anthony Hardware Co., hardware.....	1143	4.68
John A. Schlener & Co., stationery.....	1146	3.03
J. A. Vye, secretary, sundry disbursements.....	1161	79.00
Brooks Bros., lumber.....	1294	5.93
Forman, Ford & Co., glass.....	1303	5.23
McGill-Warner Co., 2,300 bulletins.....	1312	12.00
W. K. Morrison & Co., hardware.....	1313	8.60
C. L. Moffat, horseshoeing.....	1314	21.00
The Munson Stationery Co., paper and carbon.....	1316	2.33
Northwestern Fuel Co., coal.....	1319	31.56
N. W. Telephone Exchange Co., line rental.....	1320	8.25
Plumbing & Steamfitting Supplies Co., hardware.....	1323	3.21
John A. Schlener & Co., stationery.....	1330	8.55
Otto Gas Engine Works, exhaust cams.....	1332	19.60
J. A. Vye, secretary, sundry disbursements.....	1335	53.73
American Electric Co., electrical supplies.....	1443	6.94
W. M. Hays, travel to and from Washington.....	1455	91.00
S. B. Loye & Sons, whips, thread and needles.....	1461	2.30
The John Leslie Paper Co., paper.....	1462	21.00
The Munson Stationery Co., ribbons.....	1463	2.50
Minneapolis Iron Store Co., carriage bolts.....	1464	23.84
C. L. Moffat, horseshoeing.....	1469	7.00
Northwestern Fuel Co., two tons coal.....	1470	13.50
N. W. Telephone Exchange Co., line rental.....	1471	9.65
Noyes Bros. & Cutler, drugs.....	1473	.25
Olof Olsen, upland hay.....	1474	64.30
John A. Schlener & Co., stationery.....	1476	8.70
St. Anthony Hardware Co., hardware.....	1477	7.38
Wyckoff, Seamans & Benedict, gorin tabulator.....	1482	18.00
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	1486	16.25
J. A. Vye, secretary, sundry disbursements.....	1487	57.96
Brooks Bros., lumber.....	1584	4.92
Diamond Elevator & Milling Co., 137½ bushels oats.....	1587	41.25
C. W. Gray Printing Co., printing 12,000 letter heads.....	1591	6.60
W. H. Konantz & Co., horse furnishings.....	1598	5.20
The John Leslie Paper Co., paper.....	1599	5.37
McGill-Warner Co., printing.....	1602	14.75
C. L. Moffat, horseshoeing.....	1605	12.50
N. W. Telephone Exchange Co., line rental.....	1606	8.80
Olof Olsen, hay.....	1609	52.50
S. E. Olson Co., dry goods.....	1610	15.30
Pierce Bros., oats.....	1612	182.63
W. P. Reynolds, thirty cedar posts.....	1613	5.50
John A. Schlener & Co., stationery.....	1619	3.45
J. A. Vye, secretary, sundry disbursements.....	1624	56.93
Dearborn Drug & Chemical Works, one-half barrel oil.....	1709	14.58
P. Howard, wagon materials.....	1712	11.00
R. R. Howell & Co., 70 pounds castings.....	1713	4.20
C. L. Moffat, horseshoeing.....	1720	7.00
McGill-Warner Co., bulletins of station.....	1721	24.50
Noyes Bros. & Cutler, alcohol.....	1723	10.43
N. W. Telephone Exchange Co., line rental.....	1726	8.00
N. W. Telephone Exchange Co., line rental, July.....	1727	8.00
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	1729	1.53
John A. Schlener & Co., stationery.....	1731	5.65
Thomson & Ege Carriage Co., Waverly carriage.....	1734	140.00
Bramblett & Beygeh, etchings.....	1781	6.00
C. C. Lyford, surgeon's visit.....	1792	5.00
John Leslie Paper Co., paper.....	1794	6.84
C. W. Meneilly, groceries.....	1796	5.65
Northern Machinery Co., 15½ pounds babbitt.....	1798	4.96
Thomson & Ege Carriage Co., cutter.....	1803	40.00
C. L. Moffat, horseshoeing.....	1807	8.00
Minneapolis Iron Store Co., iron.....	1808	2.38
J. A. Vye, secretary, sundry disbursements.....	1816	74.98
J. A. Vye, secretary, sundry disbursements.....	1817	7.00
John A. Schlener & Co., stationery.....	1818	1.36
R. L. Polk & Co., St. Paul Directory.....	1819	5.00
S. B. Loye & Sons, horse furnishings.....	1821	21.73

Total \$14,717.12

Division of Agriculture.

CURRENT EXPENSE.

	No. Voucher.	Amount.
W. M. Hays, professor.....	...	\$1,200.00
Andrew Boss, foreman.....	...	840.00
William Boss, mechanical engineer.....	...	107.29
Assistants and laborers.....	...	5,654.61
Students' payrolls .....	...	25.00
Fisher Paper Box Co., 200 boxes.....	13	13.50
Gruenhagen Bros., hardware.....	16	3.70
Janney, Semple, Hill & Co., scythe and snath.....	18	1.50
S. B. Loye Sons, harness materials.....	20	29.45
Minneapolis Iron Store Co., hardware.....	22	1.05
Minneapolis Photo Materials Co., photo materials.....	23	6.00
C. L. Moffat, horseshoeing.....	24	12.00
John A. Schlener & Co., stationery.....	34	1.58
Standard Oil Co., gasoline.....	35	40.93
Whitall, Tatum & Co., jars.....	41	46.45
Winston, Farrington & Co., two barrels salt.....	42	2.30
Brooks Bros., lumber.....	44	.84
Gribben Lumber Co., cedar posts.....	46	30.78
W. K. Morrison & Co., hardware.....	51	74.56
J. A. Vye, secretary, sundry disbursements.....	53	25.47
I. J. Flaten, feed.....	54	99.61
Brooks Bros., lumber.....	210	3.95
Deering Harvester Co., 50 pounds twine.....	217	4.00
Gruenhagen Bros., hardware.....	221	5.65
W. D. Hackett, five hours threshing.....	224	40.00
W. K. Morrison & Co., hardware.....	232	2.20
C. L. Moffat, horseshoeing.....	234	6.50
Minneapolis Photo Materials Co., photo materials.....	235	13.97
W. C. Palmer, freight, stamps, etc.....	239	4.94
Adolph Poirier, rattan barn brooms.....	244	2.50
Smalley Manufacturing Co., knives, etc.....	249	12.50
Standard Oil Co., gasoline.....	250	14.50
J. A. Vye, secretary, sundry disbursements.....	262	63.52
Brooks Bros., lumber.....	387	28.02
The J. I. Case Implement Co., two-seated wagon.....	393	53.00
S. B. Loye & Sons, horse furnishings.....	411	28.90
Minneapolis Photo Materials Co., one bottle toning solution....	413	.45
C. L. Moffat, horseshoeing.....	418	8.25
Northrup, King & Co., feed.....	422	7.55
Union Railway Storage Co., drain tile.....	438	.33
Williams & Sons Co., pot labels.....	439	4.80
J. A. Vye, secretary, sundry disbursements.....	441	14.19
Gruenhagen Bros., hardware.....	444	8.00
W. M. Hays, livery and hotel.....	445	7.25
Electric Wheel Co., four wheels.....	583	11.80
Gruenhagen Bros., hardware.....	590	5.72
Minnesota State Agricultural Society, rent of 25 acres land.....	605	75.00
Gruenhagen Bros., hardware.....	764	1.85
Anton Jordan, wheat and oats.....	769	154.47
Leslie & McAfee, paper.....	771	1.53
Minneapolis Photo Materials Co., photo materials.....	775	5.58
Wyckoff, Seamans & Benedict, work on machine.....	802	.50
Frank Wilzbacher, wheat and straw.....	806	65.05
J. A. Vye, secretary, sundry disbursements.....	809	21.99
Deering Harvester Co., harvester and binder, etc.....	954	77.31
Electric Wheel Co., four wheels.....	956	11.80
Eureka Manufacturing Co., one Wonder grain grader.....	958	28.47
Gruenhagen Bros., hardware.....	962	8.70
Leslie & McAfee, paper.....	974	3.66
Nicols & Dean, sleigh shoes.....	983	2.43
Wyckoff, Seamans & Benedict, paper.....	996	2.40
N. W. Fuel Co., coal.....	1001	200.00
J. A. Vye, secretary, sundry disbursements.....	1002	2.53
Douglass & Co., 2,000 pounds oil meal.....	1113	22.60
John Leslie Paper Co., envelopes.....	1125	3.56
Lyman-Eliel Drug Co., drugs.....	1126	7.05
Minneapolis Iron Store Co., steel.....	1128	9.97
Minneapolis Photo Materials Co., solio.....	1129	6.00
Nicols & Dean, wagon materials.....	1135	1.90
J. A. Vye, secretary, sundry disbursements.....	1161	9.65
Bemis Bros. Bag Co., 400 bags.....	1292	51.00
St. Anthony Hardware Co., hardware.....	1331	.75
J. A. Vye, secretary, sundry disbursements.....	1335	22.99
Bemis Bros. Bag Co., 200 bags.....	1448	30.00

	No. Voucher.	Amount.
Brooks Bros., lumber.....	1449	10.37
C. H. Gangelhoff, harrow.....	1454	18.50
R. R. Howell & Co., castings.....	1457	2.94
Jenks Bros., 40 bushels seed corn.....	1458	43.00
W. G. Johnson, pattern making.....	1460	3.20
W. K. Morrison & Co., hardware.....	1467	14.16
Northrup, King & Co., grass seed.....	1472	16.51
John A. Schlener & Co., stationery.....	1476	1.20
J. A. Vye, secretary, sundry disbursements.....	1487	19.50
Brooks Bros., timber.....	1584	13.26
D. A. Gaumintz, sundry disbursements.....	1592	5.27
C. H. Gangelhoff, corn planter.....	1593	30.70
Janney, Semple, Hill & Co., hardware.....	1595	23.94
The John Leslie Paper Co., paper.....	1599	12.50
Minneapolis Photo Materials Co., premo holders.....	1600	3.90
W. K. Morrison & Co., hardware.....	1601	1.62
Northrup, King & Co., grain and garden seed.....	1607	12.10
Noyes Bros. & Cutler, drugs.....	1608	3.44
St. Anthony Hardware Co., hardware.....	1616	10.10
J. D. Scofield, nine bushels wheat.....	1617	11.25
John A. Schlener & Co., stationery.....	1619	3.00
Williams & Sons Co., 8,000 not labels.....	1621	4.00
L. B. Bassett, 30 bushels seed corn.....	1623	24.00
J. A. Vye, secretary, sundry disbursements.....	1624	471.32
J. A. Vye, secretary, sundry disbursements.....	1627	10.12
D. A. Gaumnitz, sundry disbursements.....	1711	8.85
Iowa Seed Co., 10 bushels peas.....	1714	22.50
The John Leslie Paper Co., paper.....	1717	2.92
Northrup, King & Co., pumpkin seeds.....	1724	.57
John A. Schlener & Co., stationery.....	1731	2.49
St. Anthony Hardware Co., hardware.....	1733	2.45
American Electric Co., electric supplies.....	1780	9.75
Brooks Bros., lumber.....	1782	6.68
H. H. Clothier, 12 bushels beans.....	1783	19.80
Deere & Webber Co., book.....	1785	4.25
Forman, Ford & Co., glass.....	1788	2.65
Keuffel & Esser Co., cross-section paper.....	1791	4.80
Lyman-Eliel Drug Co., drugs.....	1793	.35
John Leslie Paper Co., paper.....	1794	7.11
Minneapolis Photo Materials Co., photo materials.....	1797	5.10
St. Anthony Hardware Co., hardware.....	1802	12.85
Minneapolis Iron Store Co., wagon materials.....	1808	6.46
John Horrigan, Clydesdale mare.....	1814	200.00
Andrew Boss, travel, Lake City.....	1815	20.00
J. A. Vye, secretary, sundry disbursements.....	1817	4.40
St. Anthony Hardware Co., hardware.....	1823	7.15
O'Brien Bros., one Clydesdale mare.....	1827	200.00
Total		\$10,719.26

Division of Chemistry.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Harry Snyder, professor.....	...	\$900.00
William Boss, mechanical engineer.....	...	5.98
Isabel D. Parker, instructor.....	...	300.00
J. A. Standen, carpenter.....	...	8.40
F. B. Guthrie, laborer.....	...	15.00
G. L. Busian, laborer.....	...	80.06
George Dean, laborer.....	...	15.00
J. A. Vye, secretary, students' payrolls.....	...	.96
Bramblett & Beygeh, etchings.....	8	4.00
J. A. Vye, secretary, sundry disbursements.....	53	12.44
Standard Oil Co., gasoline.....	250	35.59
J. A. Vye, secretary, sundry disbursements.....	262	12.37
W. S. Nott Co., belting.....	611	17.38
Harry Snyder, expenses N. E. meeting.....	621	53.35
J. A. Vye, secretary, sundry disbursements.....	632	18.50
W. G. Johnson, work at chemical laboratory.....	770	21.85
Victor A. Lundberg, plastering laboratory.....	772	27.50
J. S. Malberg, work chemical laboratory.....	779	6.23
J. A. Vye, secretary, sundry disbursements.....	809	3.95
N. W. Fuel Co., coal.....	1001	200.00
John Leslie Paper Co., envelopes.....	1125	3.55

	No. Voucher.	Amount.
J. A. Vye, secretary, sundry disbursements.....	1161	7.66
Brooks Bros., lumber.....	1161	.....
J. A. Vye, secretary, sundry disbursements.....	1335	8.60
John A. Schlener & Co., stationery.....	1476	1.00
Standard Oil Co., gasoline.....	1478	36.21
J. A. Vye, secretary, sundry disbursements.....	1487	5.94
Emil Greisner, 18 tubes.....	1590	16.07
Noyes Bros. & Cutler, drugs.....	1608	5.95
St. Anthony Hardware Co., hardware.....	1616	3.65
J. A. Vye, secretary, sundry disbursements.....	1624	7.49
Noyes Bros. & Cutler, drugs.....	1810	2.20
J. A. Vye, secretary, sundry disbursements.....	1816	8.35
J. A. Vye, secretary, sundry disbursements.....	1817	1.15
Total		\$1,846.38

Division of Entomology.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Otto Lugger, professor.....	...	\$1,000.00
J. A. Standen, carpenter.....	...	4.99
John Hoffman, teamster.....	...	.87
J. A. Vye, secretary, sundry disbursements.....	53	.25
J. A. Vye, secretary, sundry disbursements.....	632	1.00
N. W. Fuel Co., coal.....	1001	75.00
Brooks Bros., lumber.....	1294	5.62
W. G. Johnson, work.....	1306	8.10
J. A. Vye, secretary, sundry disbursements.....	1487	2.02
W. G. Johnson, carpenter work.....	1460	6.80
W. G. Johnson, carpenter work on cases.....	1596	11.90
Total		\$1,116.55

Division of Horticulture.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Samuel B. Green, professor.....	...	\$1,100.00
R. C. Carroll, foreman.....	...	732.00
Assistants and laborers.....	...	1,190.69
Students' payrolls .....	...	38.85
Allen Bros., groceries.....	5	8.24
Gruenhagen Bros., hardware.....	16	.95
Minneapolis Photo Materials Co., photo materials.....	23	3.14
Northrup, King & Co., seeds.....	25	3.22
Noyes Bros. & Cutler, drugs.....	28	1.95
J. M. Thorburn & Co., plants and seeds.....	36	8.19
Twin City Fence & Wire Works, 30 rods fence.....	37	18.00
Brooks Bros., lumber.....	44	3.33
Gribben Lumber Co., cedar posts.....	46	9.28
W. K. Morrison & Co., hardware.....	51	1.22
J. A. Vye, secretary, sundry disbursements.....	53	26.13
Brooks Bros., lumber.....	210	7.60
J. A. Vye, secretary, sundry disbursements.....	262	4.59
Bemis Bros. Bag Co., jute.....	386	5.85
Samuel B. Green, sundry disbursements.....	404	22.75
Minneapolis Photo Materials Co., photo materials.....	413	4.25
W. K. Morrison & Co., hardware.....	417	1.45
C. L. Moffat, horseshoeing.....	419	5.00
Noyes Bros. & Cutler, drugs.....	420	1.35
Aug. S. Swanson, carnations.....	435	4.00
J. A. Vye, secretary, sundry disbursements.....	441	13.19
Keuffel & Esser Co., one pair calipers.....	599	4.50
Harlan P. Kelsey, 200 ginseng roots.....	600	6.00
G. E. Stechert, books.....	622	7.36
Zimmerman Bros., chemicals.....	631	11.21
Leslie & McAfee, paper.....	771	4.52
C. L. Moffat, horseshoeing.....	781	2.00
J. A. Vye, secretary, sundry disbursements.....	809	6.12
C. S. Harrison, pine and spruce seed.....	967	7.50

	No. Voucher.	Amount.
S. B. Loye & Sons, harness, etc.....	975	40.30
N. W. Fuel Co., coal.....	1001	200.00
J. A. Vye, secretary, sundry disbursements.....	1002	2.19
Forman, Ford & Co., lights glass.....	1119	1.75
Zimmerman Bros., lantern slides, etc.....	1154	7.13
J. A. Vye, secretary, sundry disbursements.....	1161	9.88
J. A. Vye, secretary, sundry disbursements.....	1335	159.89
Henry A. Dreer, plants.....	1451	4.25
Ellwanger & Barry, plants.....	1452	7.20
Janney, Semple, Hill & Co., hardware.....	1459	8.03
S. B. Loye & Sons, harness materials.....	1461	7.40
W. K. Morrison & Co., hardware.....	1467	.96
Minneapolis Photo Materials Co., photo materials.....	1468	8.82
Northrup, King & Co., garden seeds.....	1472	4.10
Noyes Bros. & Cutler, drugs.....	1473	1.03
Zimmerman Bros., photographers' supplies.....	1485	8.98
J. A. Vye, secretary, sundry disbursements.....	1487	20.44
Brooks Bros., lumber.....	1584	8.17
Janney, Semple, Hill & Co., hardware.....	1595	4.37
W. K. Morrison & Co., hardware.....	1601	2.18
Northrup, King & Co., seed corn.....	1607	2.11
Partridge Stamp Co., four sheets zinc, punched.....	1611	4.50
Swift & Co., one ton ground tankage.....	1618	18.50
J. A. Vye, secretary, sundry disbursements.....	1624	14.85
J. A. Vye, secretary, sundry disbursements.....	1627	8.06
Janney, Semple, Hill & Co., hardware.....	1715	12.57
The John Leslie Paper Co., paper.....	1717	1.50
Minneapolis Photo Materials Co., ortho.....	1719	9.58
Noyes Bros. & Cutler, drugs.....	1722	1.10
S. E. Olson Co., sheeting.....	1728	8.24
Plumbing & Steamfitting Supplies Co., galvanized pipe.....	1729	3.67
Schneider Bros., one psychrometer.....	1732	4.25
Coffin's Box & Lumber Co., crates.....	1874	10.35
Forman, Ford & Co., window glass.....	1787	29.88
Noyes Bros. & Cutler, drugs.....	1810	2.24
J. A. Vye, secretary, sundry disbursements.....	1816	1.63
J. A. Vye, secretary, sundry disbursements.....	1817	7.35
St. Anthony Hardware Co., hardware.....	1823	1.25
Union Railway Storage Co., cement.....	1825	.85
Total		\$3,913.98

Division of Animal Husbandry.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Thomas Shaw, professor.....	...	\$1,200.00
Assistants and laborers.....	...	3,385.53
Students' payrolls .....	...	540.93
K. P. Armour, one heifer.....	6	305.00
Cosgrove Live Stock Co., one bull.....	9	215.00
Diamond Elevator & Milling Co., feed.....	11	28.75
Northrup, King & Co., seeds.....	25	27.00
Noyes Bros. & Cutler, drugs.....	28	3.43
Pillsbury-Washburn F. M. Co., feed.....	32	65.00
Joseph Tyson, six steers.....	38	343.51
Western Linseed Co., 2,000 pounds oil meal.....	40	25.60
Winston, Farrington & Co., two barrels salt.....	42	2.30
J. A. Vye, secretary, sundry disbursements.....	53	.83
Brooks Bros., lumber.....	210	2.50
Boyd Feed & Fuel Co., 22,985 pounds oats.....	212	201.12
Diamond Elevator & Milling Co., feed.....	216	276.75
B. T. Hoyt, 27,435 pounds hay.....	223	130.31
E. Lindig, 12,185 pounds hay.....	230	48.74
Pillsbury-Washburn F. M. Co., feed.....	242	63.00
Standard Oil Co., gasoline.....	250	2.50
W. W. Stivert, negatives and prints.....	251	4.19
Wm. W. Walsh, 4,405 pounds hav.....	258	26.43
Minier Bros., heifer "Mildred".....	259	355.00
J. A. Vye, secretary, sundry disbursements.....	262	3.36
Theo. Keller, 13,625 pounds hay.....	264	64.72
Henry Cardell, 17 17-24 bushels oats.....	265	8.50
Brooks Bros., shavings.....	387	1.25
Diamond Elevator Milling Co., corn.....	394	111.50
Herbert Doble, work at hog barn.....	397	8.25
Forman, Ford & Co., window glass.....	401	4.72
Peter Kordell, 83.37 bushels barley.....	407	41.19
W. K. Morrison & Co., hardware.....	416	2.13

	No. Voucher.	Amount.
W. K. Morrison & Co., hardware.....	417	5.01
Northrup, King & Co., barley.....	422	22.40
Pillsbury, Washburn F. M. Co., feed.....	429	50.60
Standard Oil Co., gasoline.....	434	4.25
R. B. Thompson, lumber.....	437	12.37
J. A. Vye, secretary, sundry disbursements.....	441	59.00
Geo. McKerrow & Sons, pure bred Oxford lamb.....	442	70.00
Theo. Keller, 4,390 pounds hay.....	443	20.85
Brooks Bros., shavings.....	575	1.25
Brooks Bros., shavings and lumber.....	576	10.39
Diamond Elevator & Milling Co., corn.....	579	23.75
Diamond Elevator & Milling Co., corn.....	580	107.70
Gruenhagen Bros., hardware.....	592	11.05
Peter Kordell, 1,925 pounds barley.....	601	20.05
Noyes Bros. & Cutler, drugs.....	613	.96
Pillsbury-Washburn F. M. Co., mill feed.....	615	64.00
Pillsbury-Washburn F. M. Co., mill feed.....	616	13.00
Standard Oil Co., gasoline.....	624	8.52
Wilson & Knowles, 2,800 pounds corn.....	630	23.00
Zimmerman Bros., chemicals.....	631	1.76
J. A. Vye, secretary, sundry disbursements.....	632	41.10
Brooks Bros., lumber.....	756	6.30
Diamond Elevator & Milling Co., corn.....	758	41.25
Gruenhagen Bros., hardware.....	764	1.37
Clem Graves, two calves, "Amos" and "Polly".....	765	150.00
Pillsbury-Washburn F. M. Co., mill feed.....	788	52.00
Standard Oil Co., gasoline.....	794	7.60
Steward & Hutcheon, one steer.....	797	80.00
W. S. Van Natta & Son, yearling steer.....	801	90.00
Webb Publishing Co., advertising.....	803	11.87
Wilson & Knowles, 3,527 pounds corn.....	804	18.05
Wisconsin Agricultural Experiment Station, one Yorkshire boar	805	15.00
J. A. Vye, secretary, sundry disbursements.....	809	16.24
J. H. & E. Patrick, one Lincoln ram.....	941	25.00
Brethour & Launderers, one Yorkshire sow.....	946	45.00
Brooks Bros., lumber.....	947	10.25
John Cooper, one Berkshire sow.....	951	20.00
Diamond Elevator & Milling Co., 50 bushels corn.....	953	20.45
Freeman & Lanpher, one ton bran.....	961	13.00
R. Gibson, two Shropshire lambs.....	965	35.00
R. R. Howell & Co., steam generator.....	968	20.00
John Jackson & Sons, two Southdown lambs.....	970	45.00
E. V. King & Co., straw.....	971	61.06
James Leask, steer, five calves, two cows.....	973	700.00
A. G. Moore, 8,065 pounds hay.....	977	56.46
Wm. Martin, two Southdown lambs.....	978	20.00
North Oaks Farm, 428 pounds pork, two sows.....	981	21.19
Pierce Bros., corn.....	988	196.57
Pillsbury-Washburn F. M. Co., 3,000 pounds mill feed.....	989	19.50
John W. Scott, five short horn cows.....	990	225.00
Standard Oil Co., gasoline.....	992	8.11
Zimmerman Bros., chemicals.....	999	3.32
N. W. Fuel Co., coal.....	1001	75.00
J. A. Vye, secretary, sundry disbursements.....	1002	248.10
J. A. Vye, secretary, sundry disbursements.....	1003	83.79
Brooks Bros., lumber.....	1110	5.88
A. C. Binnie, two calves.....	1112	62.00
Flour City Ornamental Iron Works, three wire guards.....	1117	7.40
Freeman & Lanpher, mill feed.....	1120	64.75
E. V. King & Co., 25,049 pounds straw.....	1122	83.91
A. G. Moore, 3,030 pounds hay.....	1133	21.21
Noyes Bros. & Cutler, drugs.....	1139	.96
S. E. Olson Co., four pair blankets.....	1140	12.76
Pierce Bros., oats and corn.....	1141	421.42
St. Anthony Hardware Co., hardware.....	1143	2.70
Standard Oil Co., gasoline.....	1144	9.03
O. S. Williams, drawing garbage.....	1153	12.19
Zimmerman Bros., lantern slides, etc.....	1154	1.65
Seefer Bros., one Southdown lamb.....	1157	10.00
John Hardy, one stack straw.....	1158	60.00
John Campbell, six Shropshire lambs.....	1159	67.60
John Davidson, short horn heifer.....	1160	300.00
J. A. Vye, secretary, sundry disbursements.....	1161	34.97
Brooks Bros., lumber.....	1204	23.28
Central Avenue Feed Co., 4,417 pounds straw.....	1205	15.98
B. F. Dorsey & Sons, Poland China boar.....	1209	25.00
Freeman & Lanpher, mill feed.....	1304	34.00
Janney, Semple, Hill & Co., hardware.....	1305	13.71
W. G. Johnson, work at barn.....	1306	1.30
Frank Lindig, 10.777 tons hay.....	1310	150.88
Noyes Bros. & Cutler, drugs.....	1318	1.25

	No. Voucher.	Amount.
Northern Wisconsin Live Stock Co., four cows.....	1321	201.50
Pillsbury-Washburn & M. Co., 3,000 pounds shorts.....	1322	22.20
August Richter, 14½ tons straw.....	1326	58.00
St. Anthony Hardware Co., hardware.....	1331	2.20
Standard Oil Co., gasoline.....	1333	5.94
George Green, two Berkshire sows.....	1334	95.00
J. A. Vye, secretary, sundry disbursements.....	1335	25.40
Central Avenue Feed Co., straw.....	1444	36.24
Freeman & Lanpher, mill feed.....	1453	98.25
Janney, Semple, Hill & Co., hardware.....	1459	2.25
Northrup, King & Co., grain and grass seed.....	1472	8.38
Olof Olsen, upland hay.....	1474	44.44
Stanley R. Pierce, Angus bull calf.....	1475	25.00
Standard Oil Co., gasoline.....	1478	8.10
Winston, Farrington & Co., three barrels salt.....	1483	4.50
J. A. Vye, secretary, sundry disbursements.....	1487	17.38
Western Linseed Co., one ton oil meal.....	1489	22.00
Freeman & Lanpher, mill feed.....	1589	37.50
Janney, Semple, Hill & Co., hardware.....	1595	3.13
E. V. King & Co., 25,540 pounds straw.....	1597	89.39
Midland Linseed Oil Co., one ton oil meal.....	1604	24.00
Northrup, King & Co., seeds.....	1607	15.22
Olof Olsen, upland hay.....	1609	42.00
Pierce Bros., oats.....	1612	156.56
Standard Oil Co., gasoline.....	1615	5.78
Upton & Shadewald, 2,250 pounds straw.....	1620	7.27
J. A. Vye, secretary, sundry disbursements.....	1624	14.33
J. A. Vye, secretary, sundry disbursements.....	1627	3.57
Central Avenue Feed Co., straw and corn.....	1706	38.08
Chicago Steel Tank Co., tank.....	1707	11.25
Diamond Elevator Co., 50 bushels corn.....	1708	21.85
Freeman & Lanpher, mill feed.....	1710	75.75
Frank Lindig, bringing hogs from Hugo.....	1718	4.00
Northrup, King & Co., screenings.....	1724	102.68
Standard Oil Co., gasoline.....	1730	8.14
St. Anthony Hardware Co., hardware.....	1733	9.80
Freeman & Lanpher, mill feed.....	1786	46.00
E. V. King & Co., straw and corn.....	1790	69.54
Northrup, King & Co., screenings.....	1799	82.84
Thomas Shaw, sundry disbursements.....	1801	38.25
Brooks Bros., lumber.....	1804	4.22
Diamond Elevator & Milling Co., corn.....	1805	94.25
Janney, Semple, Hill & Co., hardware.....	1806	4.50
Midland Linseed Oil Co., oil meal.....	1809	33.00
C. E. Clarke, steers and pigs.....	1811	349.00
J. A. Vye, secretary, sundry disbursements.....	1816	7.52
J. A. Vye, secretary, sundry disbursements.....	1817	3.90
A. W. Edson, sow and litter.....	1820	38.00
B. T. Hoyt, quarantine hogs.....	1822	26.50
R. J. Kelly, six pigs.....	1826	36.00
T. C. Douglas, two wethers.....	1828	30.00
Total		\$13,965.96

Division of Dairy Husbandry.**CURRENT EXPENSE.**

	No. Voucher.	Amount.
Theo. L. Haecker, professor.....	...	\$1,300.00

Division of Veterinary.**CURRENT EXPENSE.**

	No. Voucher.	Amount.
Myron H. Reynolds, professor.....	...	\$900.00
J. A. Standen, carpenter.....	...	8.18
George Williamson, laborer.....	...	187.32
W. D. Newton, laborer.....67
Frank Jepson, laborer.....	...	1.27
E. A. Palmer, laborer.....	...	58.08
Chas. F. True, laborer.....	...	3.47
George Hartman, laborer.....75
J. A. Vye, secretary, students' payrolls.....96
J. A. Vye, secretary, sundry disbursements.....	53	.25
M. H. Reynolds, dehorning clippers.....	245	10.00

	No. Voucher.	Amount.
J. A. Vye, secretary, sundry disbursements.....	262	.15
Brooks Bros., shavings.....	387	2.50
Noyes Bros. & Cutler, drugs.....	420	17.40
Pasteur Vaccine Co., vaccine.....	427	4.50
M. H. Reynolds, sundry disbursements.....	432	9.17
Gruenhagen Bros., hardware.....	444	3.20
Theodore Anderson, 1,830 pounds hay.....	573	8.23
Theodore Anderson, 3,610 pounds hay.....	574	17.02
J. A. Vye, secretary, sundry disbursements.....	632	3.90
Theodore Anderson, 1,850 pounds hay.....	755	9.25
Brooks Bros., shavings.....	756	3.75
Pierce Bros., oats.....	787	12.34
Dr. M. C. Reynolds, sundry disbursements.....	793	14.91
Theodore Anderson, 1,842 pounds timothy.....	942	9.21
N. W. Fuel Co., coal.....	1001	75.00
Pierce Bros., oats and corn.....	1141	19.01
Theo. Anderson, 945 pounds hay.....	1155	4.73
Theo. Anderson, 2,860 pounds hay.....	1156	14.30
J. A. Vye, secretary, sundry disbursements.....	1161	1.13
H. Crawford Co., 30 book covers.....	1296	3.60
St. Anthony Hardware Co., hardware.....	1331	1.45
Theo. Anderson, 945 pounds hay.....	1441	4.73
Theo. Anderson, 925 pounds hay.....	1442	4.62
The John Leslie Paper Co., paper.....	1462	1.63
Theo. Anderson, 1,200 pounds hay.....	1484	6.00
J. A. Vye, secretary, sundry disbursements.....	1487	1.10
J. A. Vye, secretary, sundry disbursements.....	1624	.40
Theo. Anderson, 945 pounds hay.....	1625	4.73
Theo. Anderson, 929 pounds hay.....	1626	4.62
Brooks Bros., shavings.....	1705	1.25
John Leinen, 745 pounds oats.....	1716	7.45
Noyes Bros. & Cutler, drugs.....	1722	3.00
St. Anthony Hardware Co., cotton hose.....	1733	3.13
Noyes Bros. & Cutler, drugs.....	1810	29.11
J. A. Vye, secretary, sundry disbursements.....	1816	1.25
Total		<u>\$1,478.72</u>

CURRENT EXPENSE.

GENERAL STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE
FISCAL YEAR ENDING JULY 31, 1902.

RECEIPTS.

Balance on hand Aug. 1, 1901.....	\$30,540.37
From Grants Made by the United States Government—	
Approved March 2, 1861, and July 2, 1862, being interest on bonds of various states in which the resulting funds are invested	\$53,613.50
United States treasurer, Hatch Fund.....	15,000.00
United States treasurer, Morrill Fund.....	25,000.00
	<u>\$93,613.50</u>
From the State Treasurer—	
23-100 mill revenue tax.....	\$149,030.69
Deficiency appropriation	35,000.00
	<u>184,030.69</u>
From the University—deposits made by the accountant.....	131,732.66
	<u>\$439,917.22</u>

DISBURSEMENTS.

By salaries and bills paid, as per detailed statement.....	<u>\$419,744.97</u>
True balance in treasury July 31, 1902.....	\$20,172.25
Add June and July bills paid in August.....	4,118.90
	<u>\$24,291.15</u>
Auditor's balance	

DETAILED STATEMENT OF RECEIPTS FOR THE FISCAL YEAR END- ING JULY 31, 1902.

CURRENT EXPENSE RECEIPTS.

Balance on hand Aug. 1, 1901.....		\$30,540.37
From United States Appropriations—		
Income from permanent productive fund:		
Interest on land contracts	\$20,066.18	
Interest on Alabama bonds	2,140.00	
Interest on Delaware bonds	3,930.00	
Interest on Massachusetts bonds	4,200.00	
Interest on Tennessee bonds	1,800.00	
Interest on Minnesota bonds	8,540.00	
Interest on Virginia bonds	10,650.00	
Interest on village bonds	1,681.16	
Interest on bank deposits	606.16	
Total interest	\$53,613.50	
From U. S. treasurer for Experiment Station (Hatch)....	15,000.00	
From U. S. treasurer for Agricultural College (Morrill)...	25,000.00	
		93,613.50
From State Appropriations—		
State treasurer, 23-100 mill revenue tax.....	\$149,030.69	
State treasurer, deficiency appropriation.....	35,000.00	
		184,030.69
From the University—		
Students' fees, farm sales and other sources:		
Students' fees, etc.....	\$104,000.00	
Experiment Station, sale of farm products.....	11,157.99	
School of Agriculture, students' fees and sales.....	8,179.42	
Minnetonka Fruit Farm, sale of lots.....	2,088.36	
Dental Infirmary receipts.....	5,130.00	
Miscellaneous items as follows:		
Telephone messages	\$18.55	
Material sold	191.65	
Refund of salaries.....	214.79	
Rent of Elmquist lot.....	24.00	
Refund on paid bills.....	97.96	
Duties refunded by United States government.....	278.45	
Locker fund	280.75	
Work done for outside parties.....	33.39	
Rent of armory.....	20.00	
Miscellaneous	17.35	
		131,732.66
Total		\$439,917.22

CURRENT EXPENSE.

SUMMARY OF EXPENSE BY DEPARTMENTS, 1901-1902.

	Salaries.	Bills.
General University	\$27,337.83	\$29,983.72
Botany	\$4,782.50	5,837.82
Biology	5,200.00	1,680.30
Chemistry	9,165.00	4,374.77
Physics	5,945.00	690.81
Languages	23,385.00	40.75
English	8,973.00	172.45
Mathematics	4,700.00	.40
Astronomy	1,900.00	9.80
Political Science	6,600.00	232.60
Geology	3,400.00	784.69
Philosophy	5,805.00	49.97
History	6,100.00	.....
Rhetoric	3,800.00	867.78
Pedagogy	2,750.00	125.58
Physical Science	3,767.50	600.47
Military Science	1,132.50	158.60
General Science, Literature and Art.....	2,647.87	536.42
Totals	\$100,053.37	\$16,163.21

Electrical Engineering	\$1,266.83	\$999.35
Mechanical Engineering	9,164.84	3,500.70
Civil Engineering	3,750.00	1,411.93
Drawing	4,400.00	202.50
General Engineering	5,892.34	6.53
Totals	\$24,474.01	\$6,121.01
School of Mines.....	\$5,160.00	\$3,117.74
College of Law.....	\$16,927.50	\$3,598.06
Anatomy	\$3,550.00	\$2,511.32
Bacteriology	4,911.92	2,986.86
Chemistry	4,250.00	1,149.75
Physiology	4,375.04	2,976.12
Histology	5,516.11	3,268.26
General Medicine and Surgery.....	9,540.37	3,787.19
Totals	\$32,143.44	\$16,679.50
Homeopathy	\$1,800.00	\$478.83
Dentistry	10,650.00	3,370.83
Pharmacy	3,912.50	1,197.03
Total University	\$222,458.65	\$80,709.93
General Station	\$8,355.00	\$6,507.02
Agriculture	9,710.96	5,894.70
Chemistry	2,189.88	923.27
Entomology	208.08	50.84
Horticulture	3,085.43	878.95
Animal Husbandry	5,133.01	9,987.20
Dairy Husbandry	1,200.00	.....
Veterinary	1,489.74	463.25
Totals	\$31,372.10	\$24,705.23
The School of Agriculture.....	\$22,639.45	\$8,316.97
Agriculture	1,796.04	4.74
Chemistry	2,063.07	760.99
Entomology	200.00	.....
Horticulture	3,699.06	1,168.92
Animal Husbandry	800.00	109.71
Dairy Husbandry	6,800.87	6,571.93
Veterinary	1,394.10	651.80
Totals	\$39,392.59	\$17,585.11
Total Station and School.....	\$70,764.69	\$42,290.34
Grand total	\$293,223.34	\$123,000.27
Total current expense.....		\$416,223.61

DISBURSEMENTS FOR THE YEAR ENDING JULY 31, 1902, BY EXPENSE LISTS.

Receipts brought forward.....	\$439,917.22
August—University payroll	\$3,157.50
Farm payroll	4,876.16
University bills	5,000.55
Farm bills	3,169.51
September—University payroll	20,345.71
Farm payroll	4,963.01
University bills	7,379.66
Farm bills	4,211.16
October—University payroll	20,946.12
Farm payroll	6,520.69
University bills	11,029.59
Farm bills	4,750.70
November—University payroll	21,181.50
Farm payroll	6,726.15
University bills	9,081.57
Farm bills	4,885.21
December—University payroll	21,754.62

Farm payroll	6,228.45
University bills	6,414.22
Farm bills	3,178.05
January—University payroll	21,478.15
Farm payroll	7,394.38
University bills	7,428.24
Farm bills	4,183.95
February—University payroll	21,594.17
Farm payroll	6,614.31
University bills	6,920.31
Farm bills	4,984.00
March—University payroll	21,721.17
Farm payroll	6,580.15
University bills	9,005.65
Farm bills	3,711.28
April—University payroll	21,813.67
Farm payroll	5,249.91
University bills	8,310.10
Farm bills	2,186.29
May—University payroll	22,168.65
Farm payroll	4,864.48
University bills	7,143.66
Farm bills	4,007.21
June—University payroll	20,639.34
Farm payroll	5,272.05
University bills	4,055.46
Farm bills	1,678.26
July—University payroll	3,503.05
Farm payroll ..	5,474.95
University bills	1,095.92
Farm bills	1,344.72
Total university payroll.....	\$220,303.65
Total farm payroll.....	70,764.69
Total university bills.....	82,864.93
Total farm bills.....	42,290.34
Grand total	\$416,223.61

ITEMS PAID BY STATE AUDITOR.

Interest on Virginia bonds.....	\$184.55	
Fees to county treasurers.....	121.04	
Fees to county treasurers.....	215.77	
Revolving fund	3,000.00	
		419,744.97
True balance		\$20,172.25
Add June and July bills paid in August.....		4,118.90
Auditor's balance		\$24,291.15

CURRENT EXPENSE.

STATEMENT OF RECEIPTS AND DISBURSEMENTS, BY COLLEGES, FOR
THE YEAR ENDING JULY 31, 1902.

	Receipts.	Disburse- ments.
General University	\$2,927.15	\$57,321.55
College of Science, Literature and the Arts.....	25,819.75	116,216.58
College of Engineering.....	7,921.50	30,595.02
College of Law.....	23,687.35	20,525.56
School of Mines.....	2,785.50	8,277.74
College of Medicine and Surgery.....	31,184.48	48,822.94
College of Homeopathic Medicine and Surgery.....	1,501.83	2,278.83
College of Dentistry.....	13,785.69	14,020.83
College of Pharmacy.....	2,782.00	5,109.53
The School of Agriculture.....	8,179.42	56,977.70
The Experiment Station.....	11,157.99	56,077.33
Totals	\$131,732.66	\$416,223.61

CURRENT EXPENSE.

DISTRIBUTION OF ACCOUNTS.

	University.	Farm.
1. Salaries of officers.....	\$189,095.33	\$40,512.00
2. Wages of employes.....	31,208.32	30,252.69
3. Fuel and lights.....	16,351.85	7,218.69
4. Freight and express.....	1,256.12	1,393.12
5. Postage	1,443.79	807.98
6. Library	5,831.47	1,281.06
7. Stationery and printing.....	3,890.04	3,309.87
8. Furniture and fixtures.....	2,831.21	646.94
9. Scientific apparatus and instruments.....	5,536.69	529.40
10. Building .....	.....	1.50
11. Equipment of building.....	1,287.35	7.01
12. Live stock .....	.....	4,151.44
13. Tools, implements and machinery.....	1,537.20	935.34
14. Feed	299.66	9,259.94
15. Seeds and plants.....	30.98	1,432.06
16. Supplies for instruction and illustration.....	18,727.82	2,706.48
17. Repairs	1,089.80	1,199.04
18. Traveling expenses.....	1,277.14	627.61
19. Petty supplies.....	5,365.26	3,074.61
20. Museum .....	.....	19.50
21. Taxes, rents, ads.....	3,820.79	1,306.05
22. Publications	1,357.81	287.77
23. Contingent expenses	417.56	664.87
24. Labor bills	10,512.39	1,430.06
	<u>\$82,864.93</u>	<u>\$42,290.34</u>

THE TWO STATEMENTS ABOVE COMBINED.

1. Salaries of officers.....	\$229,607.33	
2. Wages of employes.....	61,461.01	
		<u>\$291,068.34</u>
3. Fuel and lights.....	\$23,570.54	
4. Freight and express.....	2,649.24	
5. Postage	2,251.77	
6. Library	7,112.53	
7. Stationery and printing.....	7,199.91	
8. Furniture and fixtures.....	3,478.15	
9. Scientific apparatus and instruments.....	6,066.09	
10. Building	1.50	
11. Equipment of building.....	1,294.36	
12. Live stock	4,151.44	
13. Tools, implements and machinery.....	2,472.54	
14. Feed	9,559.60	
15. Seeds and plants.....	1,463.04	
16. Supplies for instruction and illustration.....	21,434.30	
17. Repairs	2,288.84	
18. Traveling expenses	1,904.75	
19. Petty supplies	8,439.87	
20. Museum	19.50	
21. Taxes, rents, ads.....	5,126.84	
22. Publications	1,645.58	
23. Contingent expenses	1,082.43	
24. Labor bills	11,942.45	
		<u>125,155.27</u>
Total current expense.....		<u>\$416,223.61</u>

FINANCIAL STATEMENT.

DETAILED STATEMENT OF DISBURSEMENTS—1901-1902.

GENERAL UNIVERSITY.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Cyrus Northrop, president.....	...	\$7,500.00
William W. Folwell, librarian.....	...	500.00
St. Anthony Falls Bank, treasurer.....	...	250.00
Stephen Mahoney, secretary.....	...	300.00
E. Bird Johnson, registrar.....	...	1,400.04
Daniel W. Sprague, accountant.....	...	1,500.00
Lettie M. Crafts, assistant librarian.....	...	1,075.00
Ina Firkins, first library assistant.....	...	700.00
Anna L. Guthrie, second library assistant.....	...	698.75
Haydn S. Cole, military instructor.....	...	300.00
Burt Rose, bandmaster.....	...	315.00
Ella A. Whitney, stenographer.....	...	650.00
Mary McNevin, telephone operator.....	...	25.00
Allan W. Guild, superintendent buildings.....	...	900.00
E. J. Hempel, carpenter.....	...	800.00
Thomas Hickey, plumber.....	...	800.00
Elizabeth M. Hawley, typewriter.....	...	400.00
L. May Brooks, clerk.....	...	250.00
Eva Carris, telephone operator.....	...	275.00
Lyman J. Howes, assistant.....	...	100.00
W. H. Doty, engineer.....	...	514.04
Henry P. Johnson, engineer.....	...	550.00
Albert Munson, fireman.....	...	557.38
Ernest Dygert, fireman.....	...	660.00
Walter Daly, janitor.....	...	450.00
Oscar Munson, janitor.....	...	540.00
Thomas J. Lewcock, watchman.....	...	339.00
Frank Olson, teamster.....	...	540.00
Annie Peterson, scrub woman.....	...	285.00
Bertha Mayer, scrub woman.....	...	300.00
George N. Wilkinson, fireman.....	...	56.45
A. W. Demars, fireman.....	...	566.50
Christopher Holm, fireman.....	...	406.41
W. Boyson, fireman.....	...	200.00
Oscar Fryckman, fireman.....	...	356.45
R. C. Wedge, assistant.....	...	160.00
John Kelly, shoveler.....	...	157.77
Charles Lindsey, shoveler.....	...	93.55
A. C. Bonham, shoveler.....	...	98.66
Michael Ryan, janitor.....	...	135.00
Frank Sherman, janitor.....	...	60.00
Scrub women	1,572.83
The N. W. Telephone Exchange Co., service for August.....	5	59.75
American Soap & Chemical Co., soap.....	6	33.60
Minnesota Electric Co., motor.....	7	13.60
City of Minneapolis Water Works Department, water tax.....	8	437.71
Indian Medical Spring Water Co., medical water.....	9	32.24
Fred J. Scott, envelopes.....	10	5.00
Pioneer Fuel Co., coal.....	11	24.49
W. M. Simms, hardware.....	12	9.85
The Minneapolis General Electric Co., electric lighting.....	13	8.87
The University Press, stationery.....	14	36.85

	No. Voucher.	Amount.
Minneapolis Gas Light Co., gas.....	15	61.68
Fred J. Scott, postals.....	16	7.00
Minneapolis Office & School Furniture Co., desk.....	20	7.75
W. K. Morrison & Co., hardware.....	29	5.60
Fred J. Scott, insurance policy slips.....	40	17.00
Y. M. C. A. of U. of Minn., advertising.....	46	10.00
Minneapolis Pharmacy Co., drugs.....	50	3.00
Petty bills, miscellaneous supplies.....	58	6.41
Fred J. Scott, printing.....	61	18.75
The John Leslie Paper Co., paper.....	63	53.75
W. K. Morrison & Co., hardware.....	64	14.64
The Plumbing & Steamfitting Supplies Co., black pipe.....	65	66.42
Indian Medical Springs Water Co., medical water.....	68	12.45
The University Press, stationery.....	69	22.25
The University Press, stationery.....	70	121.60
W. S. Nott Co., packing.....	77	4.50
W. M. Simms, hardware.....	93	5.28
E. P. Leland, salary register.....	96	6.50
Glessner & Washburn, upholstering.....	97	9.25
Edwin R. Williams, draughting supplies.....	98	9.20
The Minneapolis General Electric Co., electric lighting.....	99	11.73
Minneapolis Gas Light Co., gas.....	101	.60
The N. W. Telephone Exchange Co., service for September.....	104	56.90
D. W. Sprague, accountant, freight, express, postage and extra help	109	571.17
The Pioneer Fuel Co., coal.....	168	321.02
Ina Firkins, extra work pedagogical library.....	169	27.50
Harrison & Smith Co., register and index.....	170	16.60
The John Leslie Paper Co., paper.....	171	7.00
H. L. Swain & Co., coal and wood.....	172	12.25
A. W. Campbell, double rigs.....	173	6.00
Heywood Manufacturing Co., envelopes.....	174	13.77
R. Alexander, oak rail.....	175	9.65
Pioneer Press Co., teachers' records.....	176	34.30
J. A. Fillman, decorating Library Building.....	177	28.00
Aug. Sandberg, covering pipes in heating plant.....	178	150.00
The American Desk Co., roll top desk.....	179	22.50
John A. Schlener & Co., stationery.....	180	22.05
The Mendenhall Greenhouses, rent of 30 palms.....	181	10.00
The University Press, stationery.....	182	49.37
N. W. Compo Board Co., blackboards.....	183	38.24
Fred J. Scott, book and jackets.....	184	12.75
Gas Saving Co., rent of regulators.....	185	12.00
M. Whitcomb & Co., feed.....	186	14.11
W. K. Morrison & Co., hardware.....	187	32.94
Minnesota Brush Co., brooms.....	188	26.50
R. B. Thompson, lumber.....	189	24.06
Lyman-Elie! Drug Co., drugs.....	194	2.25
Minneapolis Gas Light Co., gas.....	195	2.76
The University Book Store, stationery.....	200	6.75
The Minneapolis General Electric Co., electric lighting.....	211	71.72
American Soap & Chemical Co., soap.....	213	30.80
A. F. Storey, attorney, services, drawing affidavit.....	214	10.00
Metropolitan Music Co., rent of piano for chapel.....	216	8.00
Fred J. Scott, stationery.....	217	31.25
The Plumbing & Steamfitting Supplies Co., plumbing supplies... ..	218	65.44
Indian Medical Spring Water Co., medical water.....	219	26.55
Fairbanks, Morse & Co, repairs on hay scale.....	223	32.95
W. S. Nott Co., packing.....	240	8.35
W. M. Simms, hardware.....	259	4.05
Lucas Bros., iron boxes.....	260	6.50
The N. W. Telephone Exchange Co., service for October.....	264	59.20
Petty bills, miscellaneous supplies.....	265	10.52
D. W. Sprague, accountant, freight, express, postage and extra help	266	472.77
Fred J. Scott, envelopes and postals.....	267	30.00
Pioneer Fuel Co., coal.....	334	2,945.02
Elmer E. Adams, attending regents' meeting.....	336	15.66
Armstrong Transfer & Storage Co., three trips to St. Paul.....	337	21.00
Ozonet Co., ozonet.....	338	25.00
Gas Saving Co., rent of regulators.....	339	12.00
R. B. Thompson, lumber.....	340	77.69
Graham Paper Co., paper.....	341	142.50
Plumbing & Steamfitting Supplies Co., pipes, etc.....	342	27.76
Miller-Davis Printing Co., minutes regents' meeting.....	343	15.00
H. L. Swain & Co., coal and wood.....	344	8.80
M. Whitcomb & Co., feed.....	345	16.74

	No. Voucher.	Amount.
Harrison & Smith Co., library slips.....	346	7.25
M. Whitcomb & Co., oats.....	347	28.73
John N. Sayer, harness supplies.....	348	18.20
Enterprise Machine Co., work on engine.....	349	5.90
City of Minneapolis water Works Department, water tax.....	350	550.53
Geo. R. Newell & Co., groceries.....	351	12.60
Indian Medical Spring Water Co., medical water.....	352	42.93
American Soap & Chemical Co., soap.....	353	32.90
Minneapolis Gas Light Co., gas.....	354	3.84
The Plumbing & Steamfitting Supplies Co., plumbing materials..	355	155.17
The Minneapolis General Electric Co., electric lighting.....	358	182.20
W. M. Simms, hardware.....	369	10.70
Electrical Engineering Co., electrical supplies.....	376	21.06
W. K. Morrison & Co., hardware.....	377	30.17
Edwin R. Williams, draughting supplies.....	390	3.15
W. S. Nott Co., pulleys, etc.....	393	20.36
The University Press, stationery.....	401	129.11
Minneapolis Stamp & Stencil Co., rubber stamps.....	418	34.05
Boutell Bros., chairs.....	439	42.00
John A. Schlener & Co., stationery.....	447	23.75
Cyrus Northrop, expenses to and from Washington.....	448	75.00
Petty bills, miscellaneous supplies.....	449	6.80
D. W. Sprague, accountant, freight, express, postage and extra help	450	399.32
The Minnesota Magazine, advertising.....	452	25.00
The N. W. Telephone Exchange Co., service for November.....	453	63.95
Fred J. Scott, printing.....	335	67.50
The Pioneer Fuel Co., coal.....	538	2,967.30
The University Press, stationery.....	544	51.19
Incandescent Gas Light Co., gas fixtures.....	551	8.50
A. E. Rice, expenses regents' meeting.....	558	20.00
John A. Schlener & Co., stationery.....	561	26.35
Fred J. Scott, printing.....	562	1.50
Electrical Engineering Co., electrical supplies.....	564	3.54
W. M. Simms, hardware.....	565	1.48
McClellan Paper Co., paper.....	566	10.05
Gas Saving Co., rent of regulators.....	567	12.00
N. W. Star Oil Co., oil.....	569	17.10
The Perfection Steam Clamp Manufacturer, clamps.....	570	13.90
W. K. Morrison & Co., hardware.....	575	35.28
M. Whitcomb & Co., feed.....	576	58.67
Minneapolis Office & School Furniture Co., tables.....	578	18.00
Indian Medical Spring Water Co., medical water.....	581	27.35
Lyman-Elie! Drug Co., drugs.....	584	8.00
Minneapolis Gas Light Co., gas.....	588	15.24
Simonson Bros. Manufacturing Co., sash.....	594	11.00
W. B. McPherson, work.....	604	16.25
Standard Oil Co., oil.....	608	5.10
American Soap & Chemical Co., soap.....	609	35.00
Glessner & Washburn, leather cushions.....	610	4.00
The Interstate Clipping Bureau, 351 clippings.....	612	17.55
The Minneapolis General Electric Co., electric lighting.....	615	186.00
The N. W. Telephone Exchange Co., service for December.....	617	61.75
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	618	65.48
U. S. Envelope Co., envelopes.....	620	27.58
Twin City School Supply Co., crayons and erasers.....	621	19.95
J. A. Fillmore, decoration of Library Building.....	622	25.00
C. A. Erickson, cistern.....	623	160.00
Metropolitan Music Co., rent piano for chapel.....	625	8.00
Fred J. Scott, stationery.....	627	4.00
C. A. Erickson, furnace, etc.....	629	55.00
The University Book Store, stationery.....	630	.20
D. W. Sprague, accountant, freight, express, postage and extra help	631	479.79
The John Leslie Paper Co., paper.....	637	50.06
Petty bills, miscellaneous supplies.....	641	6.00
Minneapolis Office & School Furniture Co., pigeonhole box.....	639	5.50
The Pioneer Fuel Co., coal.....	698	2,105.60
East Side Ice Market, ice.....	699	333.01
Minneapolis Gas Light Co., gas.....	700	19.20
W. K. Morrison & Co., hardware.....	701	40.45
The Plumbing & Steamfitting Supplies Co., plumbing supplies...	702	43.64
The Great Western Printing Co., stationery.....	703	82.25
The John Leslie Paper Co., paper.....	704	.65
Heywood Manufacturing Co., envelopes.....	705	9.60
World's Fair Shoeing Shop, horseshoeing.....	706	50.05
M. Whitcomb & Co., feed.....	707	30.07

	No. Voucher.	Amount.
Gas Saving Co., rent of regulators.....	708	12.00
N. E. Furniture & Carpet Co., matting.....	709	57.75
Miller-Davis Printing Co., printing.....	710	25.25
Enterprise Machine Co., forging.....	711	5.65
Indian Medical Spring Water Co., medical water.....	712	31.35
John A. Schlener & Co., labels.....	713	11.93
The Minneapolis General Electric Co., electric lighting.....	714	.....
W. M. Simms, hardware.....	741	1.74
The University Press, printing.....	760	49.55
The Minneapolis General Electric Co., electric lighting.....	766	159.09
D. W. Sprague, accountant, freight, express, postage and extra help	768	308.68
Petty bills, miscellaneous supplies.....	769	15.47
The Pioneer Fuel Co., coal.....	827	541.29
Menzel & Jeffery, four tupper bars.....	828	11.61
Fred J. Scott, printing.....	829	8.00
Minneapolis Gas Light Co., gas.....	830	16.44
Gas Saving Co., rent of regulators.....	831	12.00
Miller-Davis Printing Co., stationery.....	832	27.00
The John Leslie Paper Co., paper.....	833	61.75
M. Whitcomb & Co., feed.....	834	32.34
Fred J. Scott, printing.....	836	40.00
The Minnesota Daily, advertising and 100 dailies one year.....	837	200.00
Cootey Lithograph & Printing Co., blank books.....	838	27.50
Minneapolis Gas Light Co., one arc.....	839	12.00
Great Western Printing Co., stationery.....	840	119.02
Indian Medical Spring Water Co., medical water.....	841	42.25
Glessner & Washburn, linoleum.....	842	11.70
W. S. Nott Co., rubber pump valves, etc.....	843	12.49
The University Press, stationery.....	844	59.60
Elmer E. Adams, attending regents' meeting.....	850	15.16
R. S. Goodfellow & Co., felt.....	851	6.25
John A. Schlener & Co., stationery.....	857	14.19
W. M. Simms, hardware.....	869	2.62
Edwin R. Williams, draughting supplies.....	880	1.35
W. K. Morrison & Co., hardware.....	886	34.14
The Munson Stationery Co., stationery.....	888	1.00
Noyes Bros. & Cutler, drugs.....	...	.....
The Minneapolis General Electric Co., electric lighting.....	907	109.47
American Linen Supply Co., linen.....	910	62.81
Petty bills, miscellaneous supplies.....	917	15.05
D. W. Sprague, accountant, freight, express, postage and extra help	918	548.60
The N. W. Telephone Exchange Co., service January and February	919	132.60
City of Minneapolis Water Works Department, water rent.....	996	540.33
Indian Medical Spring Water Co., medical water.....	997	36.90
N. W. Star Oil Co., oil.....	998	10.55
Great Western Printing Co., stationery.....	999	51.15
Minneapolis Gas Light Co., extension of service.....	1000	22.00
J. N. Sayer, horse furnishings.....	1001	5.25
American Soap & Chemical Co., soap.....	1002	35.00
Wagner & Nelson, painting.....	1003	44.92
Wagner & Nelson, graining.....	1004	6.75
R. B. Thompson, lumber.....	1005	6.85
W. M. Simms, hardware.....	1007	11.08
The Minneapolis General Electric Co., globes.....	1016	6.00
Electric Engineering Co., lamps, etc.....	1017	29.00
The University Book Store, stationery.....	1032	8.60
W. K. Morrison & Co., hardware.....	1047	4.50
Twin City School Supply Co., crayons.....	1051	4.20
The Pioneer Fuel Co., coal.....	1053	313.00
Fred J. Scott, printing.....	1056	16.75
Gas Saving Co., rent of regulators.....	1058	12.00
The John Leslie Paper Co., paper.....	1061	13.80
The University Press, stationery.....	1066	85.35
Minneapolis Gas Light Co., gas.....	1091	24.84
N. W. Telephone Exchange Co., service for March.....	1092	65.00
Petty bills, miscellaneous supplies.....	1094	14.31
D. W. Sprague, accountant, freight, express, postage and extra help	1095	253.84
American Linen Supply Co., linen.....	1096	132.66
The Minneapolis General Electric Co., electric lighting.....	1097	117.33
The Pioneer Fuel Co., coal.....	1172	1,154.51
Metropolitan Music Co., rent Grand piano.....	1174	40.00
Minneapolis Gas Light Co., gas.....	1175	35.04
The University Press, stationery.....	1176	57.68

	No. Voucher.	Amount.
Fred J. Scott, printing.....	1177	9.75
The John Leslie Paper Co., paper.....	1179	325.50
A. F. Storey, expense on protest.....	1180	5.20
The Great Western Printing Co., stationery.....	1181	60.25
Gas Saving Co., rent of regulators.....	1182	12.00
Graham Paper Co., paper.....	1183	85.50
Cootey Lithograph & Printing Co., stationery	1184	14.00
Indian Medical Spring Water Co., medical water.....	1185	13.20
W. K. Morrison & Co., hardware.....	1190	27.98
A. J. Kreger, repairing burners.....	1194	15.02
Glessner & Washburn, chair.....	1200	4.00
Electrical Engineering Co., switch.....	1201	1.10
W. M. Simms, hardware.....	1203	9.18
Minnesota Brush Co., mop heads, dusters and brooms.....	1215	38.03
The N. W. Telephone Exchange Co., service for April.....	1226	61.30
The Minneapolis General Electric Co., electric lighting.....	1257	101.01
Petty bills, miscellaneous supplies.....	1282	13.90
D. W. Sprague, accountant, freight, express, postage and extra help	1283	361.14
The Pioneer Fuel Co., coal.....	1353	1,146.98
Minneapolis Gas Light Co., gas.....	1354	24.72
Fred J. Scott, printing.....	1355	8.50
Brandow Printing Co., printing.....	1356	19.30
M. Whitcomb & Co., feed..ffi.....	1357	24.68
Currier & Ballentine, printing.....	1358	7.50
Elmer E. Adams, expenses regents' meeting.....	1359	15.62
The John Leslie Paper Co., paper.....	1360	111.59
C. W. Meneilly, soap.....	1363	8.40
Indian Medical Spring Water Co., medical water.....	1364	36.60
W. M. Simms, hardware.....	1365	6.07
Gas Saving Co., rent of regulators.....	1366	12.00
W. S. Nott Co., boiler compound.....	1367	40.00
Twin City School Supply Co., erasers.....	1368	4.95
John A. Schlener & Co., stationery.....	1369	4.65
W. K. Morrison & Co., hardware.....	1394	2.66
The University Book Store, stationery.....	1441	4.46
The Munson Stationery Co., record ribbons.....	1447	5.30
W. K. Morrison & Co., hardware.....	1460	9.25
American Soap & Chemical Co., soap.....	1471	35.70
Fred J. Scott, printing.....	1473	5.50
The 1903 Gopher, advertising.....	1480	25.00
Petty bills, miscellaneous supplies.....	1507	7.93
American Linen Supply Co., linen.....	1508	6.40
American Linen Supply Co., linen.....	1509	5.43
Standard Scrubbing Machine Co., one machine.....	1510	75.00
D. W. Sprague, accountant, freight, express, postage and extra help	1511	621.74
The Pioneer Fuel Co., coal.....	1560	251.41
W. K. Morrison & Co., hardware.....	1561	48.85
N. W. Telephone Exchange Co., service for May.....	1562	136.15
Minneapolis Gas Light Co., gas.....	1563	19.56
Carl Schlenker, playing piano one year.....	1564	75.00
Burt A. Rose, band services for commencement.....	1565	75.00
J. Gillesby, teaming on campus.....	1566	11.38
American Linen Supply Co., linen.....	1568	42.02
The John Leslie Paper Co., paper.....	1569	22.00
Gas Saving Co., rent of regulators.....	1570	12.00
Indian Medical Spring Water Co., medical water.....	1571	56.35
The University Press, printing.....	1572	31.50
Brown, Treacy & Sperry Co., printing.....	1573	44.00
Edwin R. Williams, draughting supplies.....	1590	4.50
R. B. Thompson, lumber.....	1601	3.52
American Soap & Chemical Co., soap.....	1625	61.50
Cootey Lithograph & Printing Co., check book.....	1628	12.00
Engineers' Society, U. of M., advertising.....	1640	10.00
Elmer E. Adams, expenses, regents' meeting.....	1643	15.62
The Minneapolis General Electric Co., electric lighting.....	1653	149.67
Petty bills, miscellaneous supplies.....	1654	11.10
Smith & Wilson, premium accountant's bond.....	1655	87.50
D. W. Sprague, accountant, freight, express, postage and extra help	1669	519.82
The Minneapolis General Electric Co., electric lighting.....	1670	34.66
The Minneapolis General Electric Co., outer arc globes, armory.....	1671	5.00
N. W. Telephone Exchange Co., service for July.....	1672	62.25
Lyman-Eliel Drug Co., drugs.....	1730	3.60
Fred J. Scott, printing.....	1731	22.00
Currier & Ballentine, printing.....	1732	7.00
Indian Medical Spring Water Co., medical water.....	1733	9.46

	No. Voucher.	Amount.
Wm. Simms, hardware.....	1735	52.18
M. Whitcomb & Co., feed.....	1738	12.86
Thos. S. Lynes, armory decoration.....	1739	16.00
John A. Schlener & Co., stationery.....	1740	21.87
American Soap & Chemical Co., soap.....	1741	59.70
Armour & Co., soap.....	1742	20.03
Continental Brush Co., brushes.....	1743	6.00
Minnesota Alumni Weekly, 550 copies.....	1744	33.00
W. S. Nott Co., Diamond hose.....	1749	21.00
C. W. Meneilly, groceries.....	1757	4.15
Boutell Bros., rug.....	1764	25.00
American Linen Supply Co., linen.....	1773	14.25
Northrup, King & Co., grass seeds.....	1778	6.00
Minneapolis Gas Light Co., gas.....	1781	10.92
Fred J. Scott, printing.....	1783	6.50
The Great Western Printing Co., 1,500 catalogues, etc.....	1784	1,116.54
City of Minneapolis Water Works Department, water.....	1795	354.33
D. W. Sprague, accountant, freight, express, postage and extra help	1796	379.68
Fred J. Scott, printing.....	1830	13.00
Heywood Manufacturing Co., envelopes.....	1831	22.80
The Munson Stationery Co., book holders.....	1832	6.15
John A. Schlener & Co., stationery.....	1833	6.90
American Linen Supply Co., linen.....	1838	18.58
Minneapolis Gas Light Co., gas.....	1842	3.96
Petty bills, miscellaneous supplies.....	1850	8.87
D. W. Sprague, accountant, freight, express, postage and extra help	1851	360.80
Total		\$57,321.55

THE COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Jabez Brooks, senior professor of Greek Language and Literature		\$2,000.00
John F. Downey, professor of Mathematics.....		2,400.00
John G. Moore, professor of German Language and Literature..		2,400.00
Christopher W. Hall, professor of Geology and Mineralogy.....		2,000.00
Charles W. Benton, professor of French Language and Literature		2,400.00
David L. Kiehle, professor of Pedagogy.....		2,400.00
John S. Clark, professor of Latin Language and Literature.....		2,000.00
J. Corrin Hutchinson, professor of Greek Language and Literature		2,250.00
Conway MacMillan, professor of Botany.....		1,800.00
Henry F. Nachtrieb, professor of Animal Biology.....		2,000.00
Maria L. Sanford, professor of Rhetoric and Elocution.....		1,800.00
Willis M. West, professor of History.....		2,400.00
Frederick J. B. Woodbridge, professor of Philosophy.....		2,400.00
Samuel G. Smith, professor of Sociology.....		1,200.00
Francis P. Leavenworth, professor of Astronomy and Director of Observatory		1,800.00
John S. Carlson, professor of Scandinavian Language and Literature		1,900.00
Joseph B. Pike, professor of Latin.....		1,800.00
Frank L. McVey, professor of Private Economics.....		1,800.00
Charles P. Sigerfoos, professor of Zoölogy.....		1,650.00
Charles F. Sidener, assistant professor of Chemistry.....		1,800.00
Charles F. McClumpha, assistant professor of English Language and Literature		1,500.00
E. Eugene McDermott, assistant professor of Rhetoric and Elocution		1,200.00
Matilda J. C. Wilkin, assistant professor of German.....		1,200.00
Frank M. Anderson, assistant professor of History.....		1,500.00
Edward E. Nicholson, assistant professor of Chemistry.....		1,500.00
John Zeleny, associate professor of Physics.....		1,500.00
Norman Wilde, assistant professor of Philosophy.....		1,500.00
Albert B. White, assistant professor of History.....		1,350.00
Carl Schlenker, assistant professor of German.....		1,200.00
Frederick E. Beckman, instructor in French and Spanish.....		1,300.00
Charles P. Berkey, instructor in Mineralogy (one-half).....		650.00

	No. Voucher.	Amount.
William A. Schafer, instructor in Political Economy.....	...	1,200.00
Harlow S. Gale, instructor in Psychology.....	...	1,200.00
Everhart P. Harding, instructor in Chemistry.....	...	1,200.00
John E. Granrud, instructor in Latin.....	...	1,100.00
Anthony Zeleny, instructor in Physics.....	...	1,000.00
Gilbert Ames Bliss, instructor in Mathematics.....	...	1,000.00
George N. Bauer, instructor in Mathematics.....	...	1,000.00
Josephine E. Tilden, instructor in Cryptogamic Botany.....	...	1,100.00
Frances B. Tolter, instructor in English.....	...	1,000.00
Hope McDonald, instructor in History.....	...	900.00
Oscar W. Oestlund, instructor in Animal Biology.....	...	900.00
Charles A. Savage, instructor in Latin.....	...	900.00
Waldemar Schultz, instructor in German.....	...	900.00
Marco F. Liberna, instructor in French.....	...	900.00
Henry A. Erickson, instructor in Physics.....	...	850.00
Oscar W. Firkins.....	...	800.00
Frederick W. Sardeson, instructor in Paleontology.....	...	750.00
Harold L. Lyon, instructor in Botany.....	...	795.00
Otto Rosendahl, scholar in Botany.....	...	650.00
Levi B. Pease, instructor in Chemistry.....	...	600.00
Edward Sanford, instructor in Rhetoric.....	...	600.00
Ada L. Comstock, instructor in Rhetoric.....	...	600.00
David F. Swenson, assistant instructor in Philosophy.....	...	550.00
Claire Waters, instructor in Science.....	...	700.00
Mary G. Peck, instructor.....	...	500.00
Ernest E. Hemingway, instructor.....	...	450.00
O. C. Burkhardt, instructor.....	...	435.00
Charles J. Brand, scholar.....	...	187.50
Herman Schrader, scholar.....	...	250.00
Ethel Brill, scholar.....	...	200.00
Helen Camp, assistant in Pedagogy.....	...	200.00
Hal Downey, scholar.....	...	200.00
Ella Roscoe, scholar.....	...	250.00
Linda Maley, assistant.....	...	225.00
Jessie L. Schulten, assistant.....	...	198.00
R. C. Benner, assistant.....	...	120.00
Frank Grout, assistant.....	...	180.00
Max Lando, assistant.....	...	135.00
Roy Y. Ferner, assistant.....	...	400.00
Arne O. Aaberg, assistant.....	...	90.00
William W. Folwell, professor of Political Economy.....	...	2,400.00
Richard Burton, professor of English Language and Literature.....	...	2,400.00
Frederick Klaeber, professor of Comparative and English Phil- ology.....	...	1,700.00
Frederick S. Jones, professor of Physics.....	...	2,400.00
George B. Frankforter, professor of Chemistry.....	...	2,400.00
Louis J. Cooke, physical director.....	...	1,500.00
Jennings C. Litzenberg, assistant.....	...	400.00
Anna Maud Butner, director.....	...	900.00
Marguerite Barbour, assistant.....	...	300.00
Alice Ray Hunt, pianist.....	...	150.00
A. R. Rose, instructor.....	...	200.00
William Methley, assistant.....	...	540.00
W. W. Benner, assistant.....	...	90.00
Carl A. Schumert, assistant.....	...	60.00
W. E. Bush, assistant.....	...	90.00
Edgar Rice, assistant.....	...	90.00
E. J. Gutsche, assistant.....	...	90.00
J. Burt Miner, scholar.....	...	25.00
Edwin A. Cuzner, janitor.....	...	900.00
Philander Folsom, janitor.....	...	540.00
Ephraim Hoover, janitor.....	...	315.00
E. W. Vaughn, janitor.....	...	540.00
Charles E. Daly, janitor.....	...	540.00
Jacob Knutson, janitor.....	...	540.00
Edmond S. Dowling, janitor.....	...	405.00
Percy D. Peabody, druggist.....	...	110.00
Charles D. Poore, scholar.....	...	40.00
Joseph Hopkins, assistant.....	...	30.00
F. Erkel, janitor.....	...	212.87
Christian Dame, instrument maker.....	...	195.00
J. M. Thompson, janitor.....	...	135.00
W. M. Simms, hardware.....	12	38.35
The Minneapolis General Electric Co., electric lighting.....	13	.96
The Minneapolis General Electric Co., electric lighting.....	17	6.34
Lyman-Eliel Drug Co., drugs.....	18	25.92
James O. Pierce, lot mineral specimens.....	33	50.00
C. W. Hall, sundry disbursements.....	34	27.68

	No. Voucher.	Amount.
Charles P. Berkey, expenses trip to Utah.....	35	99.68
R. Friedlander & Sohn, books.....	43	45.52
Librairie Scientifique, A. Hermann, books.....	44	45.00
N. W. Roofing & Cornice Works, scrap copper.....	49	15.54
The Macmillan Co., book.....	51	5.00
The Chicago Laboratory Supply & Scale Co., galvanometer.....	55	15.00
The University Book Store, stationery.....	56	3.10
Petty bills, miscellaneous supplies.....	58	7.30
C. J. Hibbard, 19 days' work.....	62	71.50
R. B. Thompson, lumber.....	67	30.00
W. H. Hubbard, services in English Department.....	71	15.00
Minneapolis Gas Light Co., gas.....	101	7.20
The Minneapolis General Electric Co., electric lighting.....	103	1.95
D. W. Sprague, accountant, freight, express, postage and extra help	109	26.09
R. B. Thompson, lumber.....	189	18.12
Geo. Wittbold Co., plants.....	191	5.65
Minneapolis Dry Goods Co., dry goods.....	192	39.27
McClellan Paper Co., paper.....	193	144.99
Lyman-Eliel Drug Co., drugs.....	194	35.00
Minneapolis Gas Light Co., gas.....	195	44.04
Minneapolis Office & School Furniture Co., 30 cases in sections..	196	240.00
Minneapolis Photo Materials Co., photo materials.....	197	17.41
William Donaldson & Co., fruit jars.....	198	10.26
Minneapolis Office & School Furniture Co., boxes and label holders	199	13.50
The University Book Store, stationery.....	200	48.60
A. M. Turnquist, negatives, mine scenes.....	201	10.00
Bausch & Lomb Optical Co., lens.....	202	8.13
The Chicago Laboratory Supply & Scale Co., six steel rules.....	203	6.20
Minneapolis Gas Light Co., mantels and chimneys.....	204	13.65
The Minneapolis General Electric Co., electric lighting.....	205	1.97
E. G. Smith, spherometers and scales.....	206	15.00
John H. Fouch, photo materials.....	207	30.45
The J. R. Clark Co., 300 test tube racks.....	208	36.00
Minneapolis Dry Goods Co., paper.....	209	15.40
C. W. Hall, sundry disbursements.....	210	20.60
The Minneapolis General Electric Co., electric lighting.....	211	4.25
Noyes Bros. & Cutler, drugs.....	212	257.23
Edwin R. Williams, ink.....	215	2.25
Metropolitan Music Co., rent of piano for armory.....	216	8.00
G. E. Stechert, books.....	220	12.26
Kennedy & Co., sporting goods.....	221	16.00
Minneapolis Electric & Construction Co., lamps.....	224	1.60
S. Ray, 150 hasps.....	225	10.00
Minneapolis Photo Materials Co., photo materials.....	231	5.76
Bausch & Lomb Optical Co., physical apparatus.....	250	716.89
W. M. Simms, hardware.....	259	17.25
William Wesley & Son, books.....	261	29.59
Buchhandlung, Gustav Fock, books.....	262	28.28
C. J. Hibbard, making lantern slides.....	263	100.00
Petty bills, miscellaneous supplies.....	265	21.58
D. W. Sprague, accountant, freight, express, postage and extra help	266	63.36
Minneapolis Gas Light Co., gas.....	354	98.28
Heywood Manufacturing Co., envelopes.....	356	6.65
Noyes Bros. & Cutler, drugs.....	357	250.98
The Minneapolis General Electric Co., electric lighting.....	358	12.65
Minneapolis Photo Materials Co., photo materials.....	359	14.33
Conway MacMillan, expenses to and from Superior.....	360	197.50
C. W. Hall, sundry disbursements.....	361	37.72
David F. Swenson, Welsbach burners, etc.....	362	6.17
Geo. J. Sherer, two shields.....	363	10.00
McClellan Paper Co., paper.....	364	90.00
The Pioneer Press Co., binding 93 volumes.....	365	110.50
Minneapolis Dry Goods Co., paper.....	366	28.35
Vaughn's Seed Store, plants.....	367	10.88
Bausch & Lomb Optical Co., physical apparatus.....	368	104.92
W. M. Simms, hardware.....	369	43.98
A. D. Roe, mineral specimens.....	370	15.00
McDonald Bros., 12 jars.....	371	5.88
Rand, McNally & Co., map.....	373	5.00
Josephine E. Tilden, expenses to Osceola.....	374	7.30
Minneapolis Office & School Furniture Co., two desks.....	375	40.00
W. K. Morrison & Co., hardware.....	377	11.60
Eimer & Amend, physical apparatus.....	378	234.82
Edwin E. Howell, relief map of Vesuvius.....	379	10.00
G. E. Stechert, books.....	380	15.39

	No. Voucher.	Amount.
Hudson-Kimberly Publishing Co., books.....	381	27.95
Narragansett Machine Co., tapes and arm stretch.....	382	8.20
William Wesley & Son, book.....	383	23.08
R. Friedlander & Sohn, books.....	384	43.82
Edwin R. Williams, draughting supplies.....	390	2.10
The University Book Store, books, etc.....	398	22.83
C. W. Meneilly, groceries.....	401	.76
The Minneapolis General Electric Co., electric lighting.....	411	2.59
Richards & Co., Limited, drugs.....	416	41.16
Lyman-Elie! Drug Co., drugs.....	425	11.63
Petty bills, miscellaneous supplies.....	449	10.03
D. W. Sprague, accountant, freight, express, postage and extra help	450	57.82
C. J. Hibbard, making lantern slides.....	451	100.00
Edward Sanford, services in Rhetoric.....	539	100.00
The Minneapolis General Electric Co., electric lighting.....	542	1.92
G. B. Frankforter, express and stamps.....	545	6.25
Pioneer Press Co., binding 24 volumes.....	547	27.35
Richards & Co., Limited, chemicals.....	552	99.48
The Chicago Laboratory Supply & Scale Co., laboratory supplies	554	19.55
Noyes Bros. & Cutler, drugs.....	559	319.81
Fred J. Scott, printing.....	562	4.00
W. M. Simms, hardware.....	565	3.35
McClellan Paper Co., paper.....	566	17.00
W. K. Morrison & Co., hardware.....	575	2.30
Squires & Brigham, books.....	577	120.00
Minneapolis Office & School Furniture Co., arm chairs.....	578	48.00
Minneapolis Photo Materials Co., photo materials.....	579	19.35
Andrew P. Lorenze, table.....	582	10.25
Western Camera Notes, lantern slide plates.....	587	9.90
Minneapolis Gas Light Co., gas.....	588	114.96
Minneapolis Dry Goods Co., paper.....	589	24.15
Ernst Leitz, miscroscope pinion.....	598	1.50
Roy Hopping, mineral specimens.....	600	10.05
Bausch & Lomb Optical Co., microtome.....	601	62.25
Josephine E. Tilden, Yellowstone algæ.....	603	62.40
Eimer & Amend, physical apparatus.....	602	35.54
Narragansett Machine Co., 200 lockers.....	605	300.00
Glessner & Washburn, repairing furniture.....	610	4.25
Electric Steel Elevator Co., galvanometer.....	611	28.20
C. J. Hibbard, services and expenses.....	613	104.25
C. W. Meneilly, groceries.....	614	.53
The Minneapolis General Electric Co., electric lighting.....	615	5.76
Metropolitan Music Co., miscellaneous supplies.....	624	43.30
P. H. Ware, baritone horn.....	626	20.00
Fred J. Scott, stationery.....	627	7.00
The University Book Store, stationery and books.....	630	24.78
D. W. Sprague, accountant, freight, express, postage and extra help	631	10.79
W. D. Galvin, services Political Science.....	632	75.00
C. J. Hibbard, expenses to Victoria as photographer.....	634	150.00
A. J. Kreger, installing electric lights.....	640	32.60
Petty bills, miscellaneous supplies.....	641	24.46
Minneapolis Gas Light Co., gas.....	700	129.00
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	702	19.74
The John Leslie Paper Co., paper.....	704	5.00
John A. Schlener & Co., records.....	713	4.44
The Minneapolis General Electric Co., electric lighting.....	714	3.44
Noyes Bros. & Cutler, drugs.....	715	1,034.06
R. B. Thompson, lumber.....	716	8.81
G. E. Steckert, books.....	717	128.03
Yawman & Erbe Manufacturing Co., trays, cards and guides...	718	8.50
Western Camera Notes Publishing Co., lantern slides.....	719	13.20
Minneapolis Photo Materials Co., photo materials.....	720	5.52
Minneapolis Dry Goods Co., paper.....	721	6.36
Andrew P. Lorenze, table top.....	722	11.50
Bausch & Lomb Optical Co., physical apparatus.....	723	32.16
Josephine A. Clark, index cards.....	724	32.16
Minneapolis Dry Goods Co., photographic paper.....	725	6.30
W. M. Simms, hardware.....	741	1.75
Nicholas Hansen, services in Rhetoric.....	759	60.00
Marine Biological Laboratory, marine specimens.....	761	21.00
A. J. Kreger, installing lights.....	762	72.85
Wm. W. Folwell, expenses to Washington.....	763	77.10
F. S. Collins, book.....	764	5.00
William Wesley & Son, books.....	765	31.75
The Minneapolis General Electric Co., electric lighting.....	766	26.36
Metropolitan Music Co., rent of piano for armory.....	767	8.00

	No. Voucher.	Amount.
D. W. Sprague, accountant, freight, express, postage and extra help	768	44.38
Petty bills, miscellaneous supplies.....	769	12.79
Brandow Printing Co., examination books.....	770	6.43
Minneapolis Gas Light Co., gas.....	830	104.76
Ada L. Comstock, extra work in Rhetoric.....	835	100.00
Fred J. Scott, printing.....	836	6.25
The University Press, stationery.....	844	7.50
G. E. Stechert, books.....	845	5.38
The Macmillan Co., books.....	846	5.86
C. W. Hall, postage, etc.....	847	7.95
E. D. Mix, mats.....	849	10.07
A. T. Thompson & Co., telephone signal.....	852	6.00
Dr. Otto Kuntze, plants.....	853	7.00
Minneapolis Photo Materials Co., photo materials.....	854	9.37
John A. Schlener & Co., stationery.....	857	1.50
The Minneapolis General Electric Co., electric lighting.....	858	5.23
John C. Brown, animals, etc.....	865	8.12
W. M. Simms, hardware.....	869	53.08
Adrian E. Buttz, sections of rocks.....	871	6.20
Metropolitan Music Co., rent piano for armory.....	873	12.00
The University Book Store, books.....	874	41.32
C. J. Hibbard, prints and lantern slides.....	876	104.00
C. J. Hibbard, services as photographer.....	877	100.00
Electrical Engineering Co., electrical supplies.....	878	69.50
Janney, Semple, Hill & Co., hardware.....	879	1.75
Edwin R. Williams, draughting supplies.....	880	8.70
Kennedy & Co., sporting goods.....	881	11.50
Nicholas Hansen, services Rhetorical Department.....	882	20.00
Alice Dougan, services Rhetorical Department.....	883	20.00
Minneapolis Dry Goods Co., paper.....	884	6.30
Noyes Bros. & Cutler, drugs.....	892	211.42
Bausch & Lomb Optical Co., microtome.....	899	62.25
The University Book Store, books.....	901	23.53
Warner Hardware Co., hardware.....	903	7.88
Lyman-Eliel Drug Co., drugs.....	906	4.03
The Minneapolis General Electric Co., electric lighting.....	907	33.93
Brandow Printing Co., blue books.....	909	3.58
American Linen Supply Co., linen.....	910	45.99
Alice Dougan, services Rhetorical Department.....	911	20.00
Petty bills, miscellaneous supplies.....	917	20.11
D. W. Sprague, accountant, freight, express, postage and extra help	918	29.78
R. Friedlander & Sohn, books.....	921	11.24
Oswald Weigel	922	35.29
R. B. Thompson, lumber.....	1005	2.25
Rosendahl & Brand, Vancouver Island plants.....	1006	9.00
W. M. Simms, hardware.....	1007	4.45
C. P. Sigerfoos, sundry disbursements.....	1008	18.23
Nicholas Hansen, services Rhetorical Department.....	1010	20.00
Adrian Buttz, slides.....	1012	11.50
G. F. Kriesel, machinist work.....	1013	32.11
Heywood Manufacturing Co., boxes.....	1014	14.25
Glessner & Washburn, one shade.....	1015	5.00
The Minneapolis General Electric Co., wiring.....	1016	287.35
Minneapolis Office & School Furniture Co., specimen blocks.....	1018	4.00
A. J. Dahl & Co., books.....	1023	104.10
C. J. Hibbard, five negatives.....	1028	6.25
A. J. Kreger, work.....	1031	22.08
Noyes Bros. & Cutler, drugs.....	1044	255.02
Simonson Bros. Manufacturing Co., ash.....	1046	1.25
Kennedy & Co., sporting goods.....	1050	6.40
Dr. Otto Kuntze, plants.....	1057	27.50
Review Publishing Co., printing.....	1060	6.50
G. E. Stechert, books.....	1069	139.27
Edgar L. Noyes, work in laboratory.....	1070	20.00
H. H. & C. S. Brimley, laboratory material.....	1088	63.15
Dana B. Casteel, egg tubes.....	1089	6.00
Minneapolis Gas Light Co., gas.....	1091	107.88
Petty bills, miscellaneous supplies.....	1094	3.83
D. W. Sprague, accountant, freight, express, postage and extra help	1095	18.86
The Minneapolis General Electric Co., electric lighting.....	1097	23.70
The Minneapolis General Electric Co., electric lighting.....	1099	2.66
Concilio Bibliographico, books.....	1100	83.13
Noyes Bros. & Cutler, drugs.....	1173	281.44
Metropolitan Music Co., sheet music, etc.....	1174	15.83

	No. Voucher.	Amount.
Minneapolis Gas Light Co., gas.....	1175	101.40
The University Press, stationery.....	1176	2.50
Fred J. Scott, printing.....	1177	3.25
Elmer L. Dills, expense Central Debating League.....	1178	50.00
Minneapolis Brass & Iron Manufacturing Co., stereopticon fittings	1187	45.65
Adrian C. Buttz, thin sections of rocks.....	1189	6.80
W. K. Morrison & Co., hardware.....	1190	19.50
Alice Dougan, services Rhetorical Department.....	1191	20.00
J. B. Beecher, box weight.....	1192	9.00
C. E. Van Duzee, refilling cylinders.....	1193	18.75
A. J. Kreger, extending line.....	1194	7.30
Carl T. Thayer, repairing camera.....	1195	7.00
Thomas K. Gray, drugs.....	1196	10.05
The Mendenhall Greenhouses, plants.....	1199	12.40
Electrical Engineering Co., electrical supplies.....	1201	3.00
W. M. Simms, hardware.....	1203	32.49
Minneapolis Office & School Furniture Co., furniture.....	1204	46.00
Western Camera Notes Publishing Co., lantern plates.....	1206	26.40
Edwin R. Williams, ink.....	1208	3.15
McIntosh Stereopticon Co., physical apparatus.....	1209	39.92
The University Book Store, stationery.....	1211	14.41
Minneapolis Dry Goods Co., paper.....	1213	10.55
Bausch & Lomb Optical Co., physical apparatus.....	1221	100.06
J. M. Thorburn & Co., seeds.....	1222	7.02
The Macmillan Co., book.....	1223	5.00
G. E. Stechert, book.....	1224	79.45
The Minneapolis General Electric Co., electric lighting.....	1225	15.86
Lyman-Eliehl Drug Co., drugs.....	1227	11.43
C. W. Meneilly, groceries.....	1243	6.27
The Minneapolis General Electric Co., electric lighting.....	1257	27.85
The American Journal of Anatomy, Volume I.....	1259	5.00
Cambridge Botanical Supply Co., books.....	1260	40.86
The Science Press, 24 copies Popular Science Monthly.....	1261	6.00
K. F. Koehler's Antiquarian, books.....	1262	202.15
K. F. Koehler's Antiquarian, books.....	1263	145.84
Minneapolis Photo Materials Co., photo materials.....	1277	23.95
John H. Fouch, photo materials.....	1278	13.13
C. J. Hibbard, services as photographer.....	1280	100.00
M. Emile Bescherelle, European mosses.....	1281	160.00
Lee O. Kellogg, services one term.....	1284	55.00
Petty bills, miscellaneous supplies.....	1282	44.29
D. W. Sprague, accountant, freight, express, postage and extra help	1283	100.90
Minneapolis Gas Light Co., gas.....	1354	73.92
John A. Schlener & Co., stationery.....	1369	3.50
Rose & Saviers, musical supplies.....	1370	19.75
Bausch & Lomb Optical Co., one stand, etc.....	1371	118.10
Harold L. Lyon, sundry disbursements.....	1373	6.03
Caroline B. Smith, coloring slides.....	1377	32.50
Minneapolis Dry Goods Co., paper.....	1382	14.00
Alex. James, instruction in debate.....	1387	80.00
F. J. Williman, 22 frames.....	1390	14.30
W. D. Galvin, services in Economics.....	1392	75.00
Geo. J. Sherer Sign Co., thermometer sign.....	1398	10.00
Jane F. Kennedy, examination of girls.....	1399	50.00
The Minneapolis General Electric Co., electric fitting.....	1401	8.50
Minneapolis Jewelry Manufacturing Co., badges.....	1403	17.50
Alice Dougan, services Rhetorical Department.....	1406	20.00
Edwin R. Williams, twine.....	1407	2.00
W. M. Simms, hardware.....	1412	8.36
The University Press, stationery.....	1439	9.50
The University Book Store, stationery.....	1441	28.61
Woodbury Label Co., labels.....	1456	23.20
A. B. Seymour, books.....	1457	8.78
E. E. McDermott, extra time and travel.....	1459	100.00
O. H. Peck & Co., photo materials.....	1462	25.26
The Minneapolis General Electric Co., electric lighting.....	1470	12.55
G. E. Stechert, books.....	1474	349.31
Edward Sanford, extra work in Rhetorical Department.....	1477	100.00
Ada L. Comstock, extra work in Rhetorical Department.....	1481	100.00
William Wesley & Son, freight from London.....	1483	7.92
George N. Northrop, services in English Department.....	1503	65.00
Nicholas Hansen, services in Rhetorical Department.....	1505	40.00
Petty Bills, miscellaneous supplies.....	1507	23.75
American Linen Supply Co., linen.....	1508	6.95
American Linen Supply Co., linen.....	1509	7.36

	No. Voucher:	Amount.
D. W. Sprague, accountant, freight, express, postage and extra help	1511	66.86
Clayton R. Cooley, deputy collector, duties on models.....	1361	19.60
W. K. Morrison & Co., hardware.....	1561	20.94
Minneapolis Gas Light Co., gas.....	1563	96.72
The University Press, printing.....	1572	2.25
Pioneer Press Co., binding magazines.....	1574	146.00
Benjamin Grocer, groceries.....	1575	7.16
O. H. Peck & Co., photo materials.....	1576	93.65
The Mendenhall Greenhouses, lilies.....	1577	5.00
C. E. Van Duzee, filling gas cylinders.....	1578	6.25
Thompson & Lees, cage refrigerators, etc.....	1580	78.25
Glessner & Washburn, shades and chairs.....	1581	41.67
Wagner Typewriter Co., typewriter.....	1582	52.25
Noyes Bros. & Cutler, drugs.....	1584	142.06
Alex. James, instruction in debate.....	1585	20.00
Alice Dougan, services in Rhetorical Department.....	1586	20.00
Geo. B. Frankfurter, sundry disbursements.....	1587	8.13
Edwin R. Williams, draughting supplies.....	1590	9.05
Minneapolis Jewelry Manufacturing Co., gold badges.....	1600	12.00
The University Book Store, stationery.....	1604	3.80
C. W. Meneilly, groceries.....	1613	6.49
Liquid Carbonic Acid Manufacturing Co., liquid gas.....	1623	5.00
Fairbanks, Morse & Co., cement tester and scale.....	1624	112.75
Bausch & Lomb Optical Co., triplet.....	1626	3.07
F. O. Boyd & Co., alcohol.....	1629	61.14
G. E. Stechert, books.....	1631	9.35
Union Hardware Co., balls for cycle skate.....	1632	12.00
Woodbury Label Co., labels.....	1644	22.15
The Minneapolis General Electric Co., electric lighting.....	1645	3.96
C. J. Clay & Sons, subscription to Biometrika.....	1648	7.35
Chas. P. Sigerfoos, sundry disbursements.....	1650	17.53
Ellen Janney, work in museum.....	1651	56.45
T. L. Duncan, work at minerals.....	1652	14.40
The Minneapolis General Electric Co., electric lighting.....	1653	53.05
Petty bills, miscellaneous supplies.....	1654	24.07
D. W. Sprague, accountant, freight, express, postage and extra help	1669	40.63
The Minneapolis General Electric Co., electric lighting.....	1670	11.88
Lyman-Elie! Drug Co., drugs.....	1730	4.75
W. M. Simms, hardware.....	1735	.30
Rickard & Gruman, diplomas.....	1737	5.60
Henry F. Nachtrieb, sundry disbursements.....	1746	8.20
M. Eva McIntyre, photographic work.....	1748	8.15
C. E. Van Duzee, refilling cylinder.....	1752	6.25
Beard Art & Stationery Co., signs.....	1753	12.75
Heywood Manufacturing Co., boxes.....	1754	27.50
C. W. Meneilly, groceries.....	1757	4.32
C. J. Hibbard, negatives and prints.....	1759	16.54
Elgin R. Shepard, bromides.....	1761	13.00
J. Young, flour.....	1765	.....
Lyman-Elie! Drug Co., drugs.....	1766	7.76
O. H. Peck Co., photo materials.....	1769	38.44
Noyes Bros. & Cutler, drugs.....	1770	211.38
Bausch & Lomb Optical Co., physical apparatus.....	1774	32.55
The New Era Printing Co., printing.....	1776	31.00
The University Book Store, book.....	1780	.90
Minneapolis Gas Light Co., gas.....	1781	19.92
The Minneapolis General Electric Co., electric lighting.....	1782	6.37
Henry E. Loye, draughting on maps.....	1785	15.00
Vom Grherzgl Botanisch Garten, two welwitschias.....	1787	24.98
D. W. Sprague, accountant, freight, express, postage and extra help	1796	19.28
Petty bills, miscellaneous supplies.....	1797	9.00
Josephine A. Clark, index cards.....	1834	25.86
O. H. Peck Co., photo materials.....	1835	7.87
G. E. Stechert, books.....	1836	31.77
W. M. Simms, hardware.....	1837	4.00
Metropolitan Music Co., rent of piano for armory.....	1839	8.00
The Minneapolis General Electric Co., electric lighting.....	1840	1.87
Minneapolis Gas Light Co., gas.....	1842	32.88
C. J. Hibbard, services as photographer, etc.....	1847	103.90
Wyckoff, Seamans & Benedict, rent of typewriter.....	1848	5.00
Petty bills, miscellaneous supplies.....	1850	37.36
D. W. Sprague, accountant, freight, express, postage and extra help	1851	23.87
Total		\$116,216.58

THE COLLEGE OF ENGINEERING AND THE MECHANIC ARTS.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Henry T. Eddy, professor of English and Mechanics.....	...	\$2,400.00
John J. Flather, professor of Mechanical Engineering.....	...	2,400.00
William R. Hoag, professor of Civil Engineering.....	...	2,000.00
Arthur E. Haynes, professor of mathematics.....	...	2,000.00
Frank H. Constant, professor of Structural Engineering.....	...	1,750.00
William H. Kirchner, assistant professor of Drawing.....	...	1,650.00
Frank W. Springer, assistant professor of Electrical Engineering .....	...	1,000.00
William H. Kavanaugh, mechanical engineer.....	...	1,200.00
William H. Merriman, instructor in Machine Work.....	...	1,000.00
Frederic H. Bass, engineer.....	...	1,000.00
James M. Tate, instructor in Carpentry.....	...	900.00
William E. Brooke, engineer.....	...	800.00
C. Coleman Jett, instructor in Machine Design and Drawing....	...	700.00
Henrietta Clopath, instructor in Freehand Drawing.....	...	800.00
Elizabeth Norris, instructor in Drawing.....	...	650.00
Nellie S. Trufant, instructor in Drawing.....	...	600.00
Guy L. Campbell, instructor.....	...	600.00
M. E. Anderson, scholar.....	...	100.00
George D. Shepardson, professor of Electrical Engineering.....	...	150.00
Benjamin Garbett, instructor.....	...	200.00
Argyle Buck, janitor.....	...	600.00
George Plowman, janitor.....	...	246.14
Harry Dixon, engineer .....	...	605.00
Harry G. Gilmore, assistant in Mechanical Engineering.....	...	400.00
Edward Johnson, assistant in Mechanical Engineering.....	...	250.00
Charles L. McDaniel, blacksmith.....	...	180.00
John Quense, scholar.....	...	125.00
George Buck, janitor.....	...	167.87
J. Danner, work.....	...	16.00
H. A. Hamlin, brass.....	48	9.36
Northern Machinery Co., shaft and hangers.....	72	12.51
W. C. Toles & Co., two vises.....	73	10.80
Glessner & Washburn, shades.....	97	4.72
Minneapolis Gas Light Co., gas.....	101	4.08
The Minneapolis General Electric Co., electric lighting.....	103	14.45
Morse Twist Drill & Machine Co., planers.....	106	44.53
D. W. Sprague, accountant, freight, express, postage and extra help	109	12.04
The Pioneer Fuel Co., coal.....	168	47.99
Electrical Engineering Co., electrical supplies.....	190	33.12
Minneapolis Gas Light Co., gas.....	195	3.84
The University Book Store, stationery.....	200	3.75
The Minneapolis General Electric Co., electric lighting.....	205	5.92
Fred J. Scott, stationery.....	217	8.00
The Plumbing & Steamfitting Supplies Co., plumbing supplies..	218	6.79
Tinins, Olson & Co., testing machine lever.....	226	12.00
Wm. R. Hoag, sundry disbursements.....	230	6.35
Minneapolis Photo Materials Co., photo materials.....	231	10.63
Wm. C. Bailey, lumber.....	232	7.38
John F. Wilcox, lumber.....	233	37.50
Janney, Semple, Hill & Co., hardware.....	234	57.80
Northwestern Foundry, castings.....	235	5.25
Geo. D. Shepardson, expense investigating electric equipment...	236	149.20
Electric Machinery Co., battery.....	237	5.00
Twin City Iron Works, pig iron supplies.....	238	50.86
Stoddard Hardware Co., hardware.....	239	34.19
W. S. Nott Co., belting.....	240	62.73
W. M. Simms, hardware.....	259	12.10
Petty bills, miscellaneous supplies.....	265	23.16
D. W. Sprague, accountant, freight, express, postage and extra help	266	27.06
Pioneer Fuel Co., coal.....	334	54.67
R. B. Thompson, lumber.....	340	17.25
Minneapolis Gas Light Co., gas.....	354	4.32
The Minneapolis General Electric Co., electric lighting.....	358	.10
Minneapolis Photo Materials Co., photo materials.....	359	5.20
W. M. Simms, hardware.....	369	20.82
Stoddard Hardware Co., hardware.....	372	55.33
Electrical Engineering Co., electrical supplies.....	376	8.78
W. K. Morrison & Co., hardware.....	377	2.75
M. O. Stone, labor.....	385	8.00

	No. Voucher.	Amount.
W. Bean, labor.....	386	8.80
Janney, Semple, Hill & Co., hardware.....	387	5.24
J. F. Gage & Co., chair.....	388	8.00
O. I. Eberhardt, repairing bell circuits.....	389	8.00
Edwin R. Williams, draughting supplies.....	390	6.35
The Colorado Lamp Co., 100-Watt lamps.....	391	17.00
Minneapolis Office & School Furniture Co., 15 drawing boards..	392	23.25
W. S. Nott Co., pulleys, etc.....	393	109.43
Charles H. Besley & Co., speed indicators.....	394	5.18
Marius Rosok, repairing bell circuits.....	395	6.00
H. A. Smith, books.....	396	6.00
S. Jacobs & Co., two stop watches.....	397	11.00
The University Book Store, stationery, etc.....	398	8.40
The University Press, stationery.....	401	4.10
Lyman-Eliel Drug Co., drugs.....	425	1.00
Petty bills, miscellaneous supplies.....	449	9.68
D. W. Sprague, accountant, freight, express, postage and extra help	450	15.28
The Pioneer Fuel Co., coal.....	538	74.45
The Minneapolis General Electric Co., electric lighting.....	542	.57
George Buck, work.....	543	22.50
C. J. Hibbard, negatives and slides.....	555	6.00
Wm. H. Kavanaugh, sundry disbursements.....	556	6.53
Janney, Semple, Hill & Co., hardware.....	557	32.25
Fred J. Scott, printing.....	562	6.75
Electrical Engineering Co., electrical supplies.....	564	11.10
W. M. Simms, hardware.....	565	4.70
John F. Wilcox, lumber.....	572	37.60
W. K. Morrison & Co., hardware.....	575	2.25
Minneapolis Gas Light Co., gas.....	588	6.24
W. S. Nott Co., belting.....	590	55.82
R. Alexander, panels.....	591	117.00
Chas. H. Besley & Co., diamond for lathe tool.....	592	10.00
Twin City Iron Works, coke.....	593	17.44
Wm. Bros, painting cupola.....	597	12.00
The Minneapolis General Electric Co., electric lighting.....	615	1.10
S. Obermayer Co., ladle, etc.....	619	18.00
E. O. Parker, molding sand.....	628	19.50
D. W. Sprague, accountant, freight, express, postage and extra help	631	89.33
The Engineering Magazine, index.....	633	5.00
Owen Tradewell, office work.....	636	17.30
Frank W. Springer, sundry disbursements.....	638	5.25
Office & School Furniture Co., pigeon hole box.....	639	.....
Petty bills, miscellaneous supplies.....	641	12.05
Minneapolis Gas Light Co., gas.....	700	6.72
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	702	11.92
The Minneapolis General Electric Co., electric lighting.....	714	1.93
Electrical Engineering Co., electrical supplies.....	726	8.09
Electrical Engineering Co., electrical supplies.....	727	24.19
Twin City Iron Works, pig iron.....	728	32.95
John F. Wilcox, lumber.....	729	60.36
W. E. Acomb, labor.....	730	18.00
George A. Williams & Sons, test sieves.....	731	12.25
Thomson Meter Co., meter.....	732	12.88
East Bangor Consolidated Slate Co., slate table top.....	733	13.90
J. J. Flather, stamps.....	734	6.45
Stoddard Hardware Co., hardware.....	735	50.65
Fritz J. Young, flour.....	742	1.00
The University Press, stationery.....	760	5.10
The Minneapolis General Electric Co., electric lighting.....	766	1.70
D. W. Sprague, accountant, freight, express, postage and extra help	768	31.56
Petty bills, miscellaneous supplies.....	769	11.00
The Pioneer Fuel Co., coal.....	827	71.76
Fred J. Scott, printing.....	829	4.00
Minneapolis Gas Light Co., gas.....	830	13.56
The University Press, stationery.....	844	11.20
Engineering Magazine, index Volume III.....	848	5.00
Minneapolis Photo Materials Co., photo materials.....	854	1.79
Fairbanks, Morse & Co., weights.....	859	5.00
Wm. H. Kavanaugh, expense of inspection visits.....	860	12.25
Wm. C. Bailey, lumber.....	861	15.61
H. L. Swain & Co., coal.....	862	5.60
Twin City Iron Works, coke.....	863	15.19
Stoddard Hardware Co., hardware.....	864	14.17
Nichols' Engineering & Constructing Co., steel tapes.....	866	8.75

	No. Voucher.	Amount.
W. M. Simms, hardware.....	869	14.98
W. B. McPherson, work.....	870	19.50
W. C. Hart, work in laboratory.....	875	11.40
Electrical Engineering Co., electrical supplies.....	878	3.98
Janney, Semple, Hill & Co., hardware.....	879	5.94
Edwin R. Williams, draughting supplies.....	880	8.19
W. K. Morrison & Co., hardware.....	886	.45
The Munson Stationery Co., stationery.....	888	3.75
The Plumbing & Steamfitting Supplies Co., plumbing supplies..	904	1.77
Lyman-Eliel Drug Co., drugs.....	906	5.75
The Minneapolis General Electric Co., electric lighting.....	907	.45
American Linen Supply Co., linen.....	910	11.27
Petty bills, miscellaneous supplies.....	917	15.24
D. W. Sprague, accountant, freight, express, postage and extra help	918	64.69
F. Darton & Co., physical apparatus.....	920	76.70
N. W. Star Oil Co., oil.....	998	6.00
R. B. Thompson, lumber.....	1005	2.25
W. M. Simms, hardware.....	1007	14.84
E. H. Blair, wiring.....	1009	9.45
Frank W. Springer, sundry disbursements.....	1011	22.60
The Minneapolis General Electric Co., work on lamps.....	1016	5.50
Electrical Engineering Co., electrical supplies.....	1017	3.31
Minneapolis Office & School Furniture Co., arm chairs.....	1018	37.50
E. M. Van Duzee, Jr., & Co., lamps.....	1019	43.20
Janney, Semple, Hill & Co., hardware.....	1020	23.67
Wm. Bros, one tank.....	1021	37.50
Arnold Kuhlo, one level.....	1022	60.00
Twin City Iron Works, boring cylinder.....	1024	5.00
W. J. Hall, cabinet.....	1026	8.00
John F. Wilcox, lumber.....	1027	102.21
Edwin R. Williams, rolls print.....	1029	11.63
M. E. Anderson, wiring.....	1030	6.95
Lyman-Eliel Drug Co., drugs.....	1033	1.15
W. K. Morrison & Co., hardware.....	1047	16.47
H. L. Swain & Co., coal.....	1049	8.40
The Pioneer Fuel Co., coal.....	1053	85.24
W. C. Hart, services in electrical laboratory.....	1055	19.25
Norman W. Henley & Co., books.....	1064	5.85
The University Press, stationery.....	1066	3.75
Fred A. Rich, cutter.....	1067	25.65
W. & L. E. Gurley, meter.....	1068	65.00
Harris Bros., brass.....	1073	30.60
Minneapolis Gas Light Co., gas.....	1091	6.36
Petty bills, miscellaneous supplies.....	1094	18.55
D. W. Sprague, accountant, freight, express, postage and extra help	1095	22.53
The Minneapolis General Electric Co., electric lighting.....	1097	.48
The Pioneer Fuel Co., coal.....	1172	67.40
Minneapolis Gas Light Co., gas.....	1175	9.36
Stoddard Hardware Co., hardware.....	1186	40.12
C. J. Hibbard, negatives and slides.....	1187	20.25
W. K. Morrison & Co., hardware.....	1190	6.97
A. J. Kreger, work in electrical laboratory.....	1194	12.68
Northwestern Foundry, casting.....	1197	8.34
Janney, Semple, Hill & Co., hardware.....	1198	17.23
Glessner & Washburn, shades.....	1200	5.75
Electrical Engineering Co., electrical supplies.....	1201	186.90
R. B. Thompson, lumber.....	1202	13.08
Minneapolis Office & School Furniture Co., key cabinet.....	1204	6.00
Twin City Iron Works, coke.....	1205	21.89
Twin City School Supply Co., four pieces real slate.....	1207	7.75
Edwin R. Williams, draughting supplies.....	1208	3.80
L. C. & W. L. Hutchins, painting, kalsomining and plastering..	1212	12.25
G. P. Derrickson & Co., label holders.....	1214	5.33
Fairbanks, Morse & Co., platform scale.....	1216	20.00
The Minneapolis Electric Co., electric lighting.....	1225	5.92
Lyman-Eliel Drug Co., drugs.....	1227	12.20
Geo. D. Shepardson, sundry disbursements.....	1228	7.30
Geo. D. Shepardson, sundry disbursements.....	1229	20.77
James D. Biddle, glass jars, etc.....	1251	38.70
Standard Oil Co., oil.....	1256	18.85
John F. Wilcox, lumber.....	1258	12.50
Petty bills, miscellaneous supplies.....	1282	29.16
D. W. Sprague, accountant, freight, express, postage and extra help	1283	107.65
The Munson Stationery Co., stencils.....	1236	2.25
The Pioneer Fuel Co., coal.....	1353	56.49

	No. Voucher.	Amount.
Minneapolis Gas Light Co., gas.....	1354	1.68
The John Leslie Paper Co., paper.....	1360	12.50
R. Cooley, deputy collector, duties on models.....	1361	.....
Twin City Iron Works, coke.....	1372	5.36
Therien Tool Works, steel pins and rings.....	1374	7.50
The B. F. Goodrich Co., special bands.....	1375	6.09
General Electric Co., freight.....	1376	6.35
Western Scrap Iron Co., eight pieces rails.....	1378	11.25
C. Hennecke Co., casts.....	1379	12.75
Northwestern Foundry, pig iron.....	1380	46.23
Janney, Semple, Hill & Co., steel.....	1381	4.61
Machinists' Supply Co., machinist supplies.....	1383	10.97
Farr Telephone & Construction Co., two telephones.....	1384	12.00
Minneapolis Iron Store Co., engineering supplies.....	1385	19.09
Henrietta Clopath, flannel and ticking.....	1386	5.00
John F. Wilcox, pine.....	1388	73.00
Stoddard Hardware Co., hardware.....	1389	19.10
H. L. Swain & Co., coal.....	1391	5.55
Frank W. Springer, sundry disbursements.....	1393	28.30
W. K. Morrison & Co., hardware.....	1394	3.33
Minneapolis Office & School Furniture Co., seven tables.....	1395	126.00
W. E. Acomb, work.....	1396	16.50
O. I. Eberhardt, work in electrical laboratory.....	1397	7.00
Globe Iron Works Co., cell battery.....	1400	12.00
Arnold Kuhlo, physical apparatus.....	1404	266.00
Edwin R. Williams, paper and cloth.....	1407	15.78
W. & L. E. Gurley, table and fixtures.....	1408	60.00
Schaffer & Budenberg, calorimeter.....	1410	18.00
Schaffer & Budenberg, chemical thermometers.....	1411	7.68
W. M. Simms, hardware.....	1412	15.32
The University Book Store, stationery.....	1441	3.00
J. B. & C. T. Moffett, paint stuffs.....	1449	2.75
R. B. Thompson, lumber.....	1453	7.97
Geo. D. Shepardson, sundry disbursements.....	1458	14.33
The Minneapolis General Electric Co., electric lighting.....	1470	7.27
Northern Cycle Supply Co., bicycle supplies.....	1506	7.50
Petty bills, miscellaneous supplies.....	1507	23.48
American Linen Supply Co., linen.....	1508	1.69
American Linen Supply Co., linen.....	1509	2.12
D. W. Sprague, accountant, freight, express, postage and extra help	1511	32.61
W. K. Morrison & Co., hardware.....	1561	14.92
Minneapolis Gas Light Co., gas.....	1563	3.24
The University Press, printing.....	1572	8.05
W. M. Simms, hardware.....	1579	39.36
Minneapolis Office & School Furniture Co., draughting tables...	1583	222.00
Geo. D. Shepardson, sundry disbursements.....	1588	13.59
The Gilmore-Rollins Co., machine bolts.....	1589	17.76
Edwin R. Williams, draughting supplies.. ..	1590	16.06
Shevlin-Carpenter Co., lumber.....	1591	10.14
W. S. Nott Co., packing.....	1592	5.18
Janney, Semple, Hill & Co., hardware.....	1593	4.98
Minneapolis Iron Store Co., iron and steel.....	1594	7.02
Pittsburgh Plate Glass Co., glass.....	1595	7.95
W. E. Acomb, work.....	1596	12.50
Northwestern Foundry, coke and scrap.....	1597	18.20
John F. Wilcox, pine.....	1598	17.20
The Plumbing & Steamfitting Supplies Co., valves.....	1599	20.48
R. B. Thompson, lumber.....	1601	2.52
Crucible Steel Co., crescents.....	1627	15.21
Keuffel & Esser Co., drawing materials.....	1630	117.19
The Minneapolis General Electric Co., electric lighting.....	1645	6.07
The Minneapolis General Electric Co., proportion of freight....	1646	6.24
The Minneapolis General Electric Co., electric lighting.....	1653	.20
Petty bills, miscellaneous supplies.....	1654	9.02
D. W. Sprague, accountant, freight, express, postage and extra help	1669	26.88
The Minneapolis General Electric Co., electric lighting.....	1670	.60
Lyman-Elie! Drug Co., drugs.....	1730	11.31
The Pioneer Fuel Co., coal.....	1736	75.56
Machinists' Supply Co., three reamer cutters.....	1745	9.00
Swahn Pottery Manufacturing Co., clay.....	1747	6.50
W. S. Nott Co., leather and pulleys.....	1749	32.56
Janney, Semple, Hill & Co., hardware.....	1750	6.11
Minneapolis Steel & Machinery Co., steam pump.....	1751	20.00
Twin City Paint Co., plaster of Paris.....	1755	12.00
Arnold Kuhlo, surveying instruments.....	1756	164.45
Edwin R. Williams, draughting supplies.....	1758	5.55

	No. Voucher.	Amovnt.
W. K. Morrison & Co., hardware.....	1760	47.40
Fritz J. Young, flour.....	1765	1.63
Lyman-Eliel Drug Co., drugs.....	1766	1.88
O. H. Peck Co., printing frames.....	1769	4.80
R. B. Thompson, lumber.....	1772	2.12
Crucible Steel Co., crucible machinery.....	1779	7.82
Minneapolis Gas Light Co., gas.....	1781	2.28
The Minneapolis General Electric Co., electric lighting.....	1782	.38
D. W. Sprague, accountant, freight, express, postage and extra help	1796	40.95
Wm. Simms, hardware.....	1837	3.20
The Engineering News Publishing Co., advertising.....	1841	87.25
Minneapolis Gas Light Co., gas.....	1842	2.04
Petty bills, miscellaneous supplies.....	1850	26.43
D. W. Sprague, accountant, freight, express, postage and extra help	1851	5.98
Total		\$30,595.02

THE COLLEGE OF LAW.

CURRENT EXPENSE.

	No. Voucher.	Amount.
William S. Pattee, dean.....	...	\$3,500.00
Adam C. Hickman, professor of Pleading and Practice.....	...	2,500.00
James Paige, professor of Torts and Criminal Law.....	...	2,400.00
Henry I. Fletcher, lecturer Contracts and Real Property.....	...	1,600.00
Howard S. Abbott, lecturer Corporations.....	...	1,090.00
Robert S. Kolliner, lecturer Personal Property.....	...	910.00
James O. Pierce, lecturer Constitutional Jurisprudence.....	...	200.00
John Day Smith, lecturer American Constitutional Law.....	...	720.00
Ransom J. Powell, lecturer in Justice Practice.....	...	1,000.00
Willima W. Folwell, lecturer on International Law.....	...	180.00
Jared How, lecturer on Landlord and Tenant.....	...	210.00
Edwin A. Jaggard, lecturer on Taxation.....	...	430.00
John C. Sweet, lecturer on Mortgage Foreclosure.....	...	400.00
C. D. O'Brien, lecturer on Criminal Procedure.....	...	80.00
George B. Young, lecturer on Conflict of Laws.....	...	60.00
Hugh E. Willis, stenographer.....	...	780.00
William Furst, librarian.....	...	350.00
Frank Eckert, janitor.....	...	517.50
Minneapolis Electric & Construction Co., installing lights.....	19	44.53
Minneapolis Office & School Furniture Co., 40 feet shelving.....	20	55.00
Y. M. C. A. of U. of Minn., advertising.....	46	10.00
Fred J. Scott, letter heads.....	61	4.00
H. L. Collins Co., books.....	74	63.45
The Minneapolis General Electric Co., electric lighting.....	99	.04
Minneapolis Gas Light Co., gas.....	101	1.08
D. W. Sprague, accountant, freight, express, postage and extra help	109	.30
Minneapolis Gas Light Co., gas.....	195	4.92
The Minneapolis General Electric Co., electric lighting.....	211	5.61
Minneapolis Electric & Construction Co., ray reflectors.....	224	5.00
The Boston Book Co., books.....	227	408.00
The Boston Book Co., books.....	228	159.71
A. J. Dahl & Co., books.....	229	284.85
Petty bills, miscellaneous supplies.....	265	6.25
D. W. Sprague, accountant, freight, express, postage and extra help	266	4.34
Fred J. Scott, printing.....	335	18.25
Minneapolis Gas Light Co., gas.....	354	12.96
The Minneapolis General Electric Co., electric lighting.....	358	17.99
The University Book Store, hall rent.....	398	75.00
Little, Brown & Co., books.....	399	4.75
The Lawyers' Co-operative Publishing Co., books.....	400	26.00
The University Press, stationery.....	401	346.65
Callaghan & Co., books.....	402	100.00
T. & J. W. Johnson & Co.....	403	341.50
The Boston Book Co., books and subscription.....	404	296.00
Petty bills, miscellaneous supplies.....	449	5.90
D. W. Sprague, accountant, freight, express, postage and extra help	450	6.99
The University Press, stationery.....	544	62.55
W. H. Yale, books.....	546	100.00

	No. Voucher.	Amount.
H. L. Collins Co., binding books.....	549	26.40
Frank Alverdes & Co., books.....	550	21.95
A. J. Dahl & Co., stationery.....	580	11.85
The Minneapolis General Electric Co., electric lighting.....	615	19.93
D. W. Sprague, accountant, freight, express, postage and extra help	631	4.17
Petty bills, miscellaneous supplies.....	641	1.00
Minneapolis Gas Light Co., gas.....	700	24.72
The Minneapolis General Electric Co., electric lighting.....	766	19.50
D. W. Sprague, accountant, freight, express, postage and extra help	768	.89
Brandow Printing Co., examination books.....	770	6.44
Democrat Printing Co., cards and pockets.....	855	9.38
Wyckoff, Seamans & Benedict, Remington typewriter.....	856	65.00
John A. Schlener & Co., stationery.....	857	1.25
Harrison & Smith Co., court minutes.....	867	9.50
Frank Alverdes & Co., books and stationery.....	868	49.40
The University Press, stationery.....	872	51.20
Minneapolis Dry Goods Co., rattan matting.....	884	9.90
The Minneapolis General Electric Co., electric lighting.....	907	14.69
Brandow Printing Co., blue books.....	909	3.59
D. W. Sprague, accountant, freight, express, postage and extra help	918	1.45
Minneapolis Furniture Co., table.....	1025	5.00
West Publishing Co., books.....	1062	233.67
The University Press, stationery.....	1066	39.00
Minneapolis Gas Light Co., gas.....	1091	10.44
Petty bills, miscellaneous supplies.....	1094	2.40
The Minneapolis General Electric Co., electric lighting.....	1097	18.49
Minneapolis Gas Light Co., gas.....	1175	12.12
Frank Alverdes & Co., books.....	1210	37.35
The University Book Store, hall rent.....	1211	150.00
The Minneapolis General Electric Co., electric lighting.....	1257	18.40
Petty bills, miscellaneous supplies.....	1282	5.70
D. W. Sprague, accountant, freight, express, postage and extra help	1283	1.15
Minneapolis Gas Light Co., gas.....	1354	10.68
The John Leslie Paper Co., paper.....	1360	12.50
West Publishing Co., books.....	1402	90.00
Frank Alverdes & Co., books.....	1405	15.15
The University Press, stationery.....	1439	9.75
D. W. Sprague, accountant, freight, express, postage and extra help	1511	1.70
Minneapolis Gas Light Co., gas.....	1563	10.80
A. J. Dahl & Co., books.....	1602	26.35
Frank Alverdes & Co., books.....	1603	9.30
The Minneapolis General Electric Co., electric lighting.....	1653	37.18
The Minneapolis General Electric Co., electric lighting.....	1670	2.93
E. W. Huffant, treasurer, dues to Association American Law Schools	1777	10.00
Minneapolis Gas Light Co., gas.....	1781	2.28
D. W. Sprague, accountant, freight, express, postage and extra help	1796	.45
Minneapolis Gas Light Co., gas.....	1842	1.44
Total		\$20,525.56

THE SCHOOL OF MINES.

Note.—The appropriation of \$5,000 for support of School of Mines is not enough to meet the expenses of this department. Whatever is lacking has been paid annually out of the Current Expense Fund.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Chas. E. Van Barneveld, professor.....	...	\$2,250.00
Peter Christianson, instructor.....	...	550.00
Benj. F. Groat, assistant professor.....	...	600.00
Edward P. McCarthy, instructor.....	...	450.00
Harry H. Cupinall, janitor.....	...	120.00
Gust Rydland, millwright.....	...	360.00
Peter Parsons, janitor.....	...	180.00
Charles P. Berkey, instructor in Mineralogy (one-half salary)	650.00

	No. Voucher.	Amount
The Minneapolis General Electric Co., electric lighting.....	17	.76
Minneapolis Gas Light Co., gas.....	101	.12
Edwin R. Williams, one roll blue print.....	215	3.00
The Minneapolis General Electric Co., electric lighting.....	358	5.79
John A. Schlener & Co., midget stapler.....	713	6.50
J. J. Gerber, steel.....	913	54.93
The Minneapolis General Electric Co., electric lighting.....	907	6.39
E. H. Sargent & Co., capsules.....	914	29.18
Enterprise Machine Co., Swain lubricators.....	915	5.00
Standard Oil Co., oil.....	916	2.00
Denver Fire Clay Co., crucibles, etc.....	988	230.41
C. L. Berger & Sons, one transit.....	989	383.00
Janney, Semple, Hill & Co., drills.....	990	7.70
Noyes Bros. & Cutler, drugs.....	991	94.92
W. M. Simms, hardware.....	992	8.67
The Plumbing & Steamfitting Supplies Co., valves and cups....	993	4.95
Petty bills, miscellaneous supplies.....	994	65.64
H. L. Swain & Co., wood.....	1049	7.50
The Pioneer Fuel Co., coal.....	1053	37.50
The General Concentrates Co., concentrator.....	1075	200.00
Denver Fire Clay Co., spoons.....	1076	1.96
American Mining News Co., one year's subscription.....	1077	2.00
Canadian Mining Review, two years' subscription.....	1078	6.00
W. R. Appleby, sundry disbursements.....	1079	11.42
E. H. Sargent & Co., crucibles.....	1080	21.35
C. W. Menelly, salt.....	1081	2.75
Wagner Typewriter Co., repairs.....	1082	1.75
Minneapolis Office & School Furniture Co., book case.....	1083	27.50
Heywood Manufacturing Co., pamphlet cases.....	1084	46.00
Chas. E. Van Barneveld, sundry disbursements.....	1085	29.00
Minneapolis Photo Materials Co., photo materials.....	1086	4.30
Minneapolis Gas Light Co., gas.....	1091	4.68
The Minneapolis General Electric Co., electric lighting.....	1097	2.54
The Minneapolis General Electric Co., electric lighting.....	1099	9.67
Petty bills, miscellaneous supplies.....	1101	38.17
The Pioneer Fuel Co., coal.....	1172	52.00
Edwin R. Williams, one roll print.....	1208	.70
The Minneapolis General Electric Co., electric lighting.....	1225	9.59
The Minneapolis General Electric Co., electric lighting.....	1257	3.59
W. R. Appleby, sundry disbursements.....	1264	16.00
Levi B. Pease, services Metallurgical Department.....	1265	200.00
Minneapolis Gas Light Co.....	1266	7.68
Janney Bros., retort cement.....	1267	2.00
W. M. Simms, hardware.....	1268	18.40
E. H. Sargent & Co., capsules.....	1269	6.00
E. H. Sargent & Co., bone ash.....	1270	6.00
Gust. Lagerquist, moving shafting, etc.....	1271	80.00
Noyes Bros. & Cutler, drugs.....	1272	7.48
Denver Fire Clay Co., mining supplies.....	1273	75.97
Wagner Typewriter Co., changing keyboard.....	1274	32.25
C. E. Van Barneveld, sundry disbursements.....	1275	18.53
O. H. Peck Co., photo materials.....	1276	4.60
Petty bills, miscellaneous supplies.....	1286	15.27
The Pioneer Fuel Co., coal.....	1353	44.00
Minneapolis Gas Light Co., gas.....	1354	3.48
The Minneapolis General Electric Co., electric lighting.....	1470	5.58
C. E. Van Barneveld, sundry disbursements.....	1485	18.20
W. R. Appleby, sundry disbursements.....	1486	16.96
W. M. Simms, hardware.....	1487	19.50
Carbert Dry Plate & Film Co., film holders.....	1488	4.50
Mining Reporter, 62 copies.....	1489	6.20
C. L. Berger & Sons, transit and wye level.....	1490	360.50
Denver Fire Clay Co., three dozen muffles.....	1491	28.75
Wm. Lorenz, three canvas cases.....	1492	8.25
Library Bureau, 1,000 cards.....	1493	3.75
The University of Chicago Press, Journal of Geology.....	1494	3.00
J. C. Landers & Co., cement.....	1495	1.20
R. B. Thompson, lumber.....	1496	4.94
Edwin R. Williams, cabinet, etc.....	1497	45.88
University Book Store, stationery.....	1498	14.71
Christian Becker, platinum weights.....	1499	16.20
Minneapolis Photo Materials Co., films.....	1500	9.12
Minneapolis Photo Materials Co., photo materials.....	1501	3.20
F. W. Braun & Co., one cyanide plant.....	1502	36.00
Petty bills, miscellaneous supplies.....	1512	15.90
Minneapolis Gas Light Co., gas.....	1563	.84
School of Mines Society, toward expenses of bulletin.....	1567	10.00
The Minneapolis General Electric Co., electric lighting.....	1645	5.18

	No. Voucher.	Amount.
The Minneapolis General Electric Co., electric lighting.....	1653	2.36
Edwin R. Williams, draughting supplies.....	1656	49.05
O. H. Peck Co., photo materials.....	1657	15.16
The Carbut Dry Plate & Film Co., film holders.....	1658	6.25
American Institute of Mining Engineers, copy of surveying instruments	1659	3.00
W. M. Simms, hardware.....	1660	9.50
A. J. Dahl & Co., books.....	1661	49.75
A. W. Townsend, iron can.....	1662	10.00
W. R. Appleby, sundry disbursements.....	1663	26.40
Smith & Thompson, balance fixtures.....	1664	25.20
J. C. Miller, M. D., chromium salt.....	1665	3.00
Hall, Black & Co., letter heads and envelopes.....	1666	16.00
Folmer & Schwing Manufacturing Co., graphic and plate holders	1667	4.80
The Minneapolis General Electric Co., electric lighting.....	1670	.99
Minneapolis Gas Light Co., gas.....	1781	1.08
The Minneapolis General Electric Co., electric lighting.....	1782	12.19
Chas. E. Van Barneveld, travel, California.....	1789	225.10
W. M. Simms, hardware.....	1790	9.79
Noyes Bros. & Cutler, drugs.....	1791	8.28
W. R. Appleby, sundry disbursements.....	1792	18.50
Edwin R. Williams, draughting supplies.....	1793	10.60
Peter J. Sanden, blacksmithing.....	1794	5.46
Minneapolis Gas Light Co., gas.....	1842	.24
Total		\$8,277.74

THE COLLEGE OF MEDICINE AND SURGERY.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Parks Ritchie, dean.....	...	\$2,400.00
Thomas G. Lee, professor.....	...	2,400.00
Charles J. Bell, professor.....	...	2,000.00
Frank F. Westbrook, professor.....	...	1,800.00
Richard O. Beard, professor.....	...	1,500.00
Henry M. Bracken, professor.....	...	1,000.00
Frederick A. Dunsmoor, professor.....	...	600.00
James H. Dunn, professor.....	...	600.00
J. Clark Stewart, professor.....	...	450.00
Charles H. Hunter, professor.....	...	200.00
Abram B. Cates, professor.....	...	400.00
Everton J. Abbott, professor.....	...	100.00
John W. Bell, professor.....	...	200.00
Charles L. Greene, professor.....	...	100.00
Charles A. Erdman, acting professor.....	...	1,800.00
Winfield S. Nickerson, assistant professor.....	...	1,500.00
S. Marx White, assistant professor.....	...	1,680.00
Hubert C. Carel, assistant professor.....	...	1,300.00
M. Russell Wilcox, demonstrator.....	...	880.00
Harry K. Read, demonstrator.....	...	800.00
George D. Head, instructor.....	...	400.00
Margaret Nickerson, instructor.....	...	500.00
Louis B. Wilson, demonstrator.....	...	400.00
Eleanor M. Wilkinson, instructor.....	...	600.00
William M. Chowning, assistant.....	...	500.00
L. U. Boyle, metal worker.....	...	780.00
Louis W. Bates, prosector.....	...	496.67
Bernard S. Nickerson, assistant.....	...	582.50
Earl R. Hare, prosector.....	...	400.00
Louis H. Fligman, assistant.....	...	400.00
William H. Condit, assistant.....	...	250.00
Chelsea C. Pratt, assistant.....	...	210.00
Richard Lundquist, laboratory helper.....	...	232.00
Edith M. Bowen, librarian.....	...	300.00
Sigurd Kaasen, assistant.....	...	305.00
Clyde H. Bailey, assistant.....	...	161.40
L. O. Clement, dispensary clerk.....	...	137.50
Albert G. Schulze, clerk.....	...	100.00
Otto Schenck, laboratory boy.....	...	15.00
Wilkin Stanley, laboratory boy.....	...	153.00
Frank Colburn, janitor.....	...	177.50
Caleb P. Adams, janitor.....	...	450.00
Gust Wickenburg, janitor.....	...	527.87

	No. Voucher.	Amonnt.
Jack Swenson, janitor.....	...	540.00
E. A. Taylor, janitor.....	...	600.00
Oscar Berger, janitor.....	...	500.00
Nora Caverly, janitress.....	...	210.00
Alvin E. Carr, assistant.....	...	360.00
Oscar Fryckman, janitor.....	...	100.00
Edwin E. Olander, scholar.....	...	45.00
The N. W. Telephone Exchange Co., service for August.....	5	6.00
Fred J. Scott, envelopes.....	10	12.00
The Minneapolis General Electric Co., electric lighting.....	13	2.39
The University Press, cards.....	14	8.00
The Minneapolis General Electric Co., electric lighting.....	17	6.62
The Ka-Korser-Ko, Limited, lantern slides.....	21	44.60
Central Gas Fixture Co., one light bracket.....	22	6.75
Liquid Carbonic Acid Manufacturing Co., liquid gas.....	23	25.00
The John Leslie Paper Co., paper.....	24	5.35
Minneapolis Photo Materials Co., photo supplies.....	25	34.70
H. J. Saunders, eight awnings.....	26	27.20
R. Alexander, moldings.....	28	5.75
W. K. Morrison & Co., hardware.....	29	9.00
Thomas G. Lee, sundry disbursements.....	30	47.50
J. Workman, eggs.....	31	6.75
Standard Oil Co., gasoline.....	32	23.64
Richter Bros., books.....	37	15.55
W. T. Keener, books.....	38	7.25
Noyes Bros. & Cutler, drugs.....	39	74.67
Geo. R. Newell & Co., soap.....	41	6.75
Chas. H. Cirkler, medical supplies.....	42	12.20
Electrical Engineering Co., four phones, etc.....	45	41.84
Y. M. C. A. of U. of Minn., advertising.....	46	10.00
The Association of Medical Librarians, annual dues.....	47	25.00
William Wood & Co., Volume II. Reference Hand Book Medical Science	52	8.00
Concilio Bibliographico, books.....	53	39.63
B. E. Dahlgren, wax models smallpox, etc.....	54	135.00
The University Book Store, books.....	56	6.00
Petty bills, miscellaneous supplies.....	58	31.24
Richards & Co., Limited, chemicals.....	59	7.59
Fred J. Scott, letter heads.....	61	2.25
Pioneer Fuel Co., coal.....	66	8.15
Liquid Carbonic Acid Manufacturing Co., liquid gas.....	75	25.00
Standard Oil Co., gasoline.....	76	31.45
W. S. Nott Co., belting.....	77	2.46
H. J. Saunders, shades.....	78	41.00
W. K. Morrison & Co., hardware.....	79	19.57
Noyes Bros. & Cutler, drugs.....	80	39.81
Electrical Engineering Co., portable for battery circuit.....	81	9.40
C. W. Meneilly, groceries.....	82	24.32
Lyman-Eliel Drug Co., drugs.....	83	46.95
Gugler Electric Manufacturing Co., desk fan.....	84	17.50
The Journal of the American Medical Association, advertising..	85	16.00
The American Medicine Publishing Co., advertising.....	86	8.00
A. C. McClurg & Co., books.....	87	6.15
Chas. H. Cirkler, chemicals.....	88	35.83
Richards & Co., Limited, chemicals.....	89	23.80
Bausch & Lomb Optical Co., microscope.....	90	67.50
Ernst Leitz, microscope.....	91	221.15
Richter Bros., books.....	92	11.00
W. M. Simms, hardware.....	93	3.35
New England Furniture & Carpet Co., 30 stools.....	94	16.88
The Beard Art & Stationery Co., examination questions.....	95	100.17
The Minneapolis General Electric Co., electric lighting.....	99	.48
The Minneapolis General Electric Co., electric lighting.....	100	6.50
Minneapolis Gas Light Co., gas.....	101	24.27
J. B. Lippincott Co., book.....	102	5.00
The Minneapolis General Electric Co., electric lighting.....	103	6.35
The N. W. Telephone Exchange Co., service for September.....	104	6.00
The American Journal of Physiology, Volume VI.....	105	5.00
The University Book Store, books.....	107	42.15
Th. Stauffer, books.....	108	86.53
D. W. Sprague, accountant, freight, express, postage and extra help	109	253.51
St. Paul Free Dispensary, six months' use of hospital.....	110	400.00
The Pioneer Fuel Co., coal.....	168	14.92
Heywood Manufacturing Co., stationery.....	174	5.50
John A. Schlener & Co., stationery.....	180	.65
W. K. Morrison & Co., hardware.....	187	1.80

	No. Voucher.	Amount.
R. B. Thompson, lumber.....	189	32.33
Minneapolis Gas Light Co., gas.....	195	23.90
Minneapolis Photo Materials Co., films.....	197	2.97
The University Book Store, stationery.....	200	32.19
The Minneapolis General Electric Co., electric lighting.....	205	1.83
The Minneapolis General Electric Co., electric lighting.....	211	2.11
Noyes Bros. & Cutler, drugs.....	212	88.56
The Plumbing & Steamfitting Supplies Co., plumbing supplies...	218	10.45
E. B. Meyrowitz, syringe and probes.....	222	7.00
Fairbanks, Morse & Co., scale supplies.....	223	2.50
W. S. Nott Co., packing.....	240	1.75
The Northwestern Lancet, advertising.....	241	60.00
The Beard Art & Stationery Co., 25 order books.....	242	5.00
Wm. Robinson, rabbits.....	243	10.33
Herman Schenck, extra work.....	244	17.50
Richards, & Co., Limited, chemical apparatus.....	245	39.10
Fritz J. Young, feed.....	246	6.19
Chas. H. Cirkler, chemical supplies.....	247	373.18
C. W. Meneilly, groceries.....	248	14.64
J. B. Massey, 18 surgeons' gowns.....	249	16.20
Bausch & Lomb Optical Co., physical apparatus.....	250	421.75
Boutell Bros., chairs.....	255	19.50
C. J. Hibbard, negatives of cultures.....	256	7.00
F. F. Westbrook, sundry disbursements.....	257	7.50
Great Western Wire & Iron Works, wire screen.....	258	9.00
W. M. Simms, hardware.....	259	48.72
The N. W. Telephone Exchange Co., services for October.....	264	8.80
Petty bills, miscellaneous supplies.....	265	32.20
D. W. Sprague, accountant, freight, express, postage and extra help	266	160.82
Fred J. Scott, printing.....	335	1.75
R. B. Thompson, lumber.....	340	1.28
Minneapolis Gas Light Co., gas.....	354	71.65
Noyes Bros. & Cutler, drugs.....	357	207.45
The Minneapolis General Electric Co., electric lighting.....	358	6.76
Bausch & Lomb Optical Co., physical apparatus.....	368	1.94
W. M. Simms, hardware.....	369	11.77
W. K. Morrison & Co., hardware.....	377	3.02
Edwin E. Howell, relief map of Vesuvius.....	379	10.00
Edwin R. Williams, draughting supplies.....	380	2.25
The University Book Store, stationery.....	398	7.60
The University Press, stationery.....	401	44.70
Wm. H. Armstrong & Co., surgical supplies.....	405	43.55
C. A. Erdman, skulls and skeletons.....	406	233.36
Wyman, Partridge & Co., dry goods.....	407	28.83
C. W. Meneilly, groceries.....	408	55.71
The Journal of the American Medical Association, advertising..	409	45.00
Crocker-Wheeler Co., journal box.....	410	12.80
The Minneapolis General Electric Co., electric lighting.....	411	4.33
Mrs. M. Braem, guinea pigs.....	412	8.00
St. Paul Medical Journal, advertising.....	413	60.00
Schulberg & Co., dog meat.....	414	7.70
Chas. H. Cirkler, drugs.....	415	47.81
Richards & Co., Limited, chemical apparatus.....	416	62.25
F. A. Davis Co., books.....	417	7.75
Minneapolis Stamp & Stencil Co., rubber stamps.....	418	5.00
John Kelly, plastering.....	419	7.50
Dr. Geo. Meyer, live animals.....	420	8.15
R. Alexander, two oak cases.....	421	62.50
A. W. Townsend, tin.....	422	17.00
Thomas G. Lee, sundry disbursements.....	423	17.20
Th. Stauffer, books.....	424	79.96
Lyman-Eliel Drug Co., drugs.....	425	50.11
J. O. Peterson, drugs.....	426	7.20
Chas. H. Cirkler, drugs.....	427	9.74
D. J. Carpenter, services as druggist.....	428	25.00
Boutell Bros., furniture.....	429	40.65
Brunsell Bros., installing transformer.....	430	12.00
Edwin A. Taylor, dispensary supplies.....	431	6.79
Minnesota Electric Co., dry batteries.....	432	13.00
Gugler Electric Manufacturing Co., changing bells and annunciator	433	6.00
Chas. H. Cirkler, surgical apparatus.....	434	27.55
Wm. H. Armstrong, surgical apparatus.....	435	9.50
J. W. George, service in laboratory.....	445	50.00
Herbert Coulton, service in laboratory.....	446	25.00
John A. Schlener & Co., compo books.....	447	.50
Petty bills, miscellaneous supplies.....	449	16.71

	No. Voucher.	Amount.
D. W. Sprague, accountant, freight, express, postage and extra help	450	194.52
The N. W. Telephone Exchange Co., service for November.....	453	6.75
F. J. Bomberger, service in laboratory.....	540	50.00
E. E. Olander, service in laboratory.....	541	25.00
The Minneapolis General Electric Co., electric lighting.....	542	6.67
The University Press, stationery.....	544	46.50
C. Eugene Riggs, M. D., microtome.....	548	70.00
W. T. Keener & Co., books.....	553	18.75
Noyes Bros. & Cutler, drugs.....	559	36.84
Hahn & Harmon, cards.....	560	5.50
John A. Schlener & Co., blotting pads.....	561	1.35
Fred J. Scott, printing.....	562	5.75
R. B. Thompson, lumber.....	563	16.39
Electrical Engineering Co., electrical supplies.....	564	6.38
W. M. Simms, hardware.....	565	4.36
North Star Printing Co., class leaflets.....	568	8.25
W. K. Morrison & Co., hardware.....	575	.31
Minneapolis Office & School Furniture Co., furniture.....	578	6.60
Minneapolis Photo Materials Co., photo materials.....	579	17.54
Lyman-Elie! Drug Co., drugs.....	584	72.08
Dr. James H. Dunn, surgical drawings.....	585	149.00
Wm. H. Armstrong & Co., grappling hooks.....	586	5.00
Minneapolis Gas Light Co., gas.....	588	81.92
Minneapolis Dry Goods Co., dry goods.....	589	4.00
Chas. H. Cirkler, physicians' supplies.....	595	51.52
Schulberg & Co., dog meat.....	596	6.35
Ernst Leitz, test tubes.....	598	97.20
Wm. Wood & Co., Volume III. Hand Book Medical Science.....	599	8.00
Bausch & Lomb Optical Co., watch glasses.....	601	6.75
F. F. Wesbrook, sundry disbursements.....	606	5.62
A. C. McClurg & Co., books.....	607	7.70
C. W. Meneilly, groceries.....	614	9.50
The Minneapolis General Electric Co., electric lighting.....	615	19.84
The N. W. Telephone Exchange Co., service for December.....	617	6.90
The University Book Store, stationery.....	630	1.20
D. W. Sprague, accountant, freight, express, postage and extra help	631	326.57
Brunsell Bros., work Free Dispensary Building.....	635	5.00
Petty bills, miscellaneous supplies.....	641	17.83
Minneapolis Gas Light Co., gas.....	700	79.87
W. K. Morrison & Co., hardware.....	701	1.66
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	702	8.02
John A. Schlener & Co., rubber bands.....	713	1.80
The Minneapolis General Electric Co., electric lighting.....	714	8.48
Electrical Engineering Co., H. R. sheets.....	727	5.55
Noyes Bros. & Cutler, drugs, etc.....	736	115.78
McDonald Bros., tumblers and kettles.....	737	10.28
The India Rubber Co., test tube caps.....	738	10.00
R. B. Thompson, lumber.....	739	7.83
C. W. Meneilly, groceries.....	740	21.18
W. M. Simms, hardware.....	741	4.78
Fritz J. Young, feed.....	742	4.37
Witt's Meat Market, meat.....	743	5.75
Anna M. Lambert, guinea pigs.....	744	6.50
Anna M. Lambert, guinea pigs.....	745	11.00
R. H. Hegener, razors ground.....	746	5.20
John W. Thoms & Co., toweling.....	747	6.48
Harrison & Smith Co., Anatomical Record.....	748	12.50
W. T. Keener & Co., books.....	749	12.75
Twin City School Supply Co., blackboard.....	750	6.80
Simonson Bros. Manufacturing Co., drawers, etc.....	751	6.00
Chas. H. Cirkler, physicians' supplies.....	756	22.97
Lyman-Elie! Drug Co., drugs.....	757	25.04
S. Marx White, services in laboratory.....	758	100.00
The University Press, stationery.....	760	5.00
The Minneapolis General Electric Co., electric lighting.....	766	27.05
D. W. Sprague, accountant, freight, express, postage and extra help	768	83.87
Petty bills, miscellaneous uspplies.....	769	13.16
Brandow Printing Co., examination books.....	770	6.43
F. O. Boyd & Co., alcohol.....	771	44.65
Minneapolis Gas Light Co., gas.....	830	56.83
Minneapolis Gas Light Co., Eclipse heater.....	839	8.00
The University Press, stationery.....	844	21.63
Minneapolis Photo Materials Co., photo materials.....	854	17.25
John A. Schlener & Co., stationery.....	857	.25
The Minneapolis General Electric Co., electric lighting.....	858	2.00

	No. Voucher.	Amount.
Stoddard Hardware Co., hardware.....	864	10.35
W. M. Simms, hardware.....	869	7.63
The University Press, stationery.....	872	6.50
Electrical Engineering Co., electrical supplies.....	878	25.96
W. K. Morrison & Co., hardware.....	886	8.48
Chas. T. Leonard Co., opaque shades.....	887	28.77
The Munson Stationery Co., stationery.....	888	4.00
The Beard Art & Stationery Co., paper.....	889	5.60
Noyes Bros. & Cutler, drugs.....	892	181.11
The Journal of the American Medical Association, advertising..	893	20.00
Gerda C. Anderson, stenographic work.....	894	6.50
Ernst Leitz, physical apparatus.....	896	135.00
Lea Brothers & Co., books.....	897	26.50
F. O. Boyd & Co., alcohol.....	898	12.93
Bausch & Lomb Optical Co., physical apparatus.....	899	76.61
F. F. Wesbrook, sundry disbursements.....	900	7.00
The University Book Store, books.....	901	30.80
R. Alexander, museum cases.....	902	321.07
Warner Hardware Co., hardware.....	903	108.90
The Plumbing & Steamfitting Supplies Co., plumbing supplies...	904	8.71
Lyman-Eliel Drug Co., drugs.....	906	148.42
The Minneapolis General Electric Co., electric lighting.....	907	18.34
F. O. Boyd & Co., alcohol.....	908	22.73
Brandow Printing Co., blue books.....	909	3.58
American Linen Supply Co., linen.....	910	191.51
McNeil & Elander, printing.....	911	13.50
Petty bills, miscellaneous supplies.....	917	59.21
D. W. Sprague, accountant, freight, express, postage and extra help	918	224.32
The N. W. Telephone Exchange Co., service January and February	919	12.00
R. B. Thompson, lumber.....	1005	2.25
W. M. Simms, hardware.....	1007	13.74
Electrical Engineering Co., electrical supplies.....	1017	5.61
Janney, Semple, Hill & Co., hardware.....	1020	7.76
Twin City Iron Works, castings.....	1024	4.80
A. J. Kreger, work.....	1031	11.60
The University Book Store, stationery.....	1032	15.58
Forman, Ford & Co., laboratory supplies.....	1034	6.94
Gugler Electric Manufacturing Co., voltameter, etc.....	1040	32.20
C. W. Meneilly, groceries.....	1041	23.29
Thomas G. Lee, sundry disbursements.....	1042	24.00
Wyman, Partridge & Co., dry goods.....	1043	11.03
Noyes Bros. & Cutler, drugs.....	1044	184.22
The Heinrich Clothing Co., 12 coats.....	1045	18.00
Simonson Bros. Manufacturing Co., door frame.....	1046	18.00
W. K. Morrison & Co., hardware.....	1047	4.17
Twin City School Supply Co., crayons.....	1051	3.12
Witt's Meat Market, meat.....	1052	15.63
The Pioneer Fuel Co., coal.....	1053	23.98
R. Alexander, furniture.....	1054	20.00
E. H. Sargent & Co., fermentation tubes.....	1059	7.50
The John Leslie Paper Co., paper.....	1061	5.15
The University Press, stationery.....	1063	19.50
Ernst Leitz, slide boxes.....	1065	15.00
The University Press, stationery.....	1066	16.75
F. Friedlander & Sohn, books.....	1074	25.15
The American Journal of Anatomy, Volume I.....	1090	5.00
Minneapolis Gas Light Co., gas.....	1091	67.69
N. W. Telephone Exchange Co., service for March.....	1092	6.00
Petty bills, miscellaneous supplies.....	1094	19.06
D. W. Sprague, accountant, freight, express, postage and extra help	1095	139.95
The Minneapolis General Electric Co., electric lighting.....	1097	10.31
The American Journal of Physiology, Volume VII.....	1098	5.00
The Minneapolis General Electric Co., electric lighting.....	1099	2.36
The Pioneer Fuel Co., coal.....	1172	10.65
Noyes Bros. & Cutler, drugs.....	1173	247.81
Minneapolis Gas Light Co., gas.....	1175	68.77
The University Press, stationery.....	1176	77.50
Fred J. Scott, printing.....	1177	1.75
W. K. Morrison & Co., hardware.....	1190	7.87
Glessner & Washburn, chairs.....	1200	1.70
Electrical Engineering Co., electrical supplies.....	1201	5.97
R. B. Thompson, lumber.....	1202	24.44
The University Book Store, books.....	1211	134.42
J. Rollin Slonaker, slides and eye sections.....	1217	42.35
The Plant Rubber Co., screw tips.....	1218	7.57

	No. Voucher.	Amount.
Charles H. Ward, brain models.....	1219	45.00
Ernst Leitz, sterilizer and pasteboard boxes.....	1220	67.62
Bausch & Lomb Optical Co., physical apparatus.....	1221	13.86
The Minneapolis General Electric Co., electric lighting.....	1225	.57
The N. W. Telephone Exchange Co., service for April.....	1226	8.90
H. T. Eddy, three lectures on hygiene.....	1230	30.00
St. Paul Free Dispensary, six months' use of hospital.....	1231	400.00
Merton Field, services anatomical laboratory.....	1232	50.00
The Housekeeper, set anatomical tools.....	1233	15.00
G. Schmidt, pathological specimen photos.....	1234	9.00
F. F. Wesbrook, sundry disbursements.....	1235	11.80
The Munson Stationery Co., stationery.....	1236	6.75
F. F. Wesbrook, poplar trays.....	1237	7.80
E. H. Sargent & Co., baskets.....	1238	22.80
Gugler Electric Manufacturing Co., X-ray tube.....	1239	10.50
Chas. E. Rounds, stenography.....	1240	30.00
Anna M. Lambert, guinea pigs.....	1241	6.70
Schulberg & Co., dog meat.....	1242	9.65
C. W. Meneilly, groceries.....	1243	15.42
C. A. Smith Lumber Co., sawdust.....	1244	10.00
Geneva Optical Co., stereopticon.....	1245	134.00
Chas. H. Cirkler, physicians' supplies.....	1250	31.92
American Vulcanized Fibre Co., white rods.....	1252	30.62
John Shaw & Co., arseniate of soda.....	1253	45.60
W. B. Saunders & Co., books.....	1254	23.50
Eimer & Amend, polariscope.....	1255	128.93
The Minneapolis General Electric Co., electric lighting.....	1257	9.92
John H. Fouch, photo materials.....	1278	2.10
Petty bills, miscellaneous supplies.....	1282	21.31
D. W. Sprague, accountant, freight, express, postage and extra help	1283	306.19
The Pioneer Fuel Co., coal.....	1353	19.95
Minneapolis Gas Light Co., gas.....	1354	91.76
The John Leslie Paper Co., paper.....	1360	20.10
E. P. Leland, printing.....	1362	12.00
Bausch & Lomb Optical Co., covers.....	1371	7.79
Janney, Semple, Hill & Co., copper, etc.....	1381	2.30
Edwin R. Williams, bands.....	1407	4.20
Noyes Bros. & Cutler, drugs.....	1409	212.97
W. M. Simms, hardware.....	1412	1.82
H. C. Arey, services in pathological and bacteriological laboratory	1413	20.00
Gardner Hardware Co., work on padlocks.....	1414	12.50
Minneapolis Stamp & Stencil Co., stencil supplies.....	1415	6.40
Hahn & Harmon, labels.....	1416	10.00
C. A. Erdman, sundry disbursements.....	1418	31.27
C. W. Meneilly, groceries.....	1419	19.75
William Wood & Co., one set studies sheet.....	1420	30.00
Lea Brothers & Co., books.....	1421	6.50
Bausch & Lomb Optical Co., physical apparatus.....	1422	33.37
U. S. Mailing Case Co., 300 cases.....	1423	10.50
Boston Medical and Surgical Journal, subscription for 1901.....	1424	10.00
F. O. Boyd & Co., alcohol.....	1425	40.98
The Journal of the American Medical Association, advertising..	1427	20.00
Mrs. Vanche Bishop, clerical services.....	1428	70.00
Mrs. M. Braem, guinea pigs.....	1430	8.00
E. H. Sargent & Co., haemometer.....	1431	17.50
Sharp & Smith, cabinet.....	1432	78.62
Dr. J. C. Ferguson, material for laboratory.....	1433	25.00
A. Alexander, case of drawers.....	1434	12.00
Herbert Coulter, services laboratory of histology.....	1435	25.00
Walter Brown, services laboratory of pathology and bacteriology	1436	15.00
A. J. Dahl & Co., books.....	1437	60.00
W. H. Kirchner, diagrams diphtheria.....	1438	11.50
The University Press, stationery.....	1439	2.50
Wyman, Partridge & Co., cotton cloth.....	1440	13.77
The University Book Store, stationery.....	1441	10.68
The University Book Store, stationery and books.....	1442	27.94
Heywood Manufacturing Co., envelopes.....	1443	7.00
The Beard Art & Stationery Co., mounting 13 charts.....	1444	7.50
R. M. Chapman, groceries.....	1445	7.05
The Ka-Korser-Ko, Limited, negatives and slides.....	1446	19.70
The Munson Stationery Co., paper.....	1447	16.25
Fritz J. Young, feed.....	1448	6.35
J. B. & C. T. Moffett, enamel, etc.....	1449	5.25
John T. Barnum, post mortem case.....	1450	10.00
Gerda C. Anderson, stenographic work.....	1451	10.40

	No. Voucher.	Amount.
E. E. Olander, services in laboratory of histology.....	1452	25.00
R. B. Thompson, lumber.....	1453	11.40
James W. George, services in histology and embryology.....	1454	50.00
James W. George, services in histology and embryology.....	1455	50.00
W. K. Morrison & Co., hardware.....	1460	3.35
Lyman-Elieel Drug Co., drugs.....	1461	.36
O. H. Peck & Co., photo materials.....	1462	1.95
J. A. Cameron, services in anatomical laboratory.....	1463	50.00
Longman, Green & Co., books.....	1464	7.61
Thos. G. Lee, sundry disbursements.....	1465	26.47
A. G. Liedloff, services in pathological and bacteriological laboratory	1466	20.00
William B. McCreery, services in anatomy.....	1467	50.00
F. J. Bamberger, services in histology.....	1468	50.00
Thos. G. Lee, sundry disbursements.....	1469	15.15
The Minneapolis General Electric Co., electric lighting.....	1470	2.47
F. F. Wesbrook, sundry disbursements.....	1472	4.30
Edward S. Judd, services laboratory of pathology and bacteriology	1475	15.00
Animal Trap Co., traps.....	1476	9.00
Irving C. Macdonald, services in surgical pathology.....	1478	100.00
Ellen Fullerton, services in pathology and bacteriology.....	1479	20.00
John W. Bell, paid for class demonstration.....	1482	13.00
Th. Stauffer, books.....	1484	107.14
Parks Ritchie, cash for Medical and Surgical Register.....	1504	11.00
Petty bills, miscellaneous supplies.....	1507	28.46
American Linen Supply Co., linen.....	1508	33.58
American Linen Supply Co., linen.....	1509	31.80
D. W. Sprague, accountant, freight, express, postage and extra help	1511	219.78
The Pioneer Fuel Co., coal.....	1560	12.32
W. K. Morrison & Co., hardware.....	1561	4.78
N. W. Telephone Exchange Co., services for May.....	1562	12.40
Minneapolis Gas Light Co., gas.....	1563	52.27
The University Press, printing.....	1572	14.25
O. H. Peck & Co., photo materials.....	1576	2.60
W. M. Simms, hardware.....	1579	4.80
Noyes Bros. & Cutler, drugs.....	1584	106.19
Janney, Semple, Hill & Co., hardware.....	1593	3.53
The University Book Store, books.....	1604	94.00
M. R. Wilcox, expenses to Animal Farm.....	1605	9.40
S. Marx White, M. D., services in clinical microscopy.....	1606	100.00
Hahn & Harmon, 5,000 cards.....	1607	5.25
R. Alexander, book cases.....	1608	167.50
A. H. Beebe, histological and embryological materials.....	1609	67.65
W. T. Keener & Co., books.....	1610	40.80
Schulenberg & Co., meat for dogs.....	1611	11.50
Electrical Engineering Co., phones.....	1612	36.50
C. W. Menelly, groceries.....	1613	15.73
Edwin A. Taylor, sundry disbursements.....	1617	6.46
Chas. H. Cirkler, drugs.....	1618	17.08
Library Bureau, cards.....	1621	21.37
Liquid Carbonic Acid Manufacturing Co., liquid gas.....	1623	2.50
Bausch & Lomb Optical Co., microscope.....	1626	67.50
William Wood & Co., Handbook Medical Science, Volume IV...	1633	8.00
W. B. Saunders & Co., book.....	1634	7.00
Eimer & Amend. reagent bottles.....	1635	256.86
Parks Ritchie, expense Saratoga meeting.....	1636	58.00
Parks Ritchie, expense of Dr. Quine of Chicago.....	1637	25.00
Twin City Telephone Co., rent of telephone.....	1641	11.10
The Minneapolis General Electric Co., electric lighting.....	1645	1.24
Buchhandlung, Gustav Fock, books.....	1647	53.66
W. G. Pye & Co., physical apparatus.....	1649	271.71
The Minneapolis General Electric Co., electric lighting.....	1653	13.87
Petty bills, miscellaneous supplies.....	1654	18.40
D. W. Sprague, accountant, freight, express, postage and extra help	1669	187.03
The Minneapolis General Electric Co., electric lighting.....	1670	7.49
N. W. Telephone Exchange Co., service for July.....	1672	6.00
Lyman-Elieel Drug Co., drugs.....	1730	6.00
The Ozonet Co., ozonet.....	1734	26.50
John A. Schlener & Co., stationery.....	1740	3.60
Minnesota Alumni Weekly, advertising.....	1744	4.00
Beard Art & Stationery Co., stationery.....	1753	13.75
Edwin R. Williams, draughting supplies.....	1758	1.55
W. K. Morrison & Co., hardware.....	1760	6.43
Anna M. Lambert, 30 guinea pigs.....	1762	15.00
Yerxa Bros. & Co., carrots.....	1763	7.50

	No. Voucher.	Amount.
Boutell Bros., mattress made over.....	1764	3.50
Fritz J. Young, feed.....	1765	4.76
Lyman-Eliel Drug Co., drugs.....	1766	.63
Sharp & Smith, wheel table, etc.....	1768	38.00
O. H. Peck Co., miniatures.....	1769	1.45
Noyes Bros. & Cutler, drugs.....	1770	57.74
Ernst Leitz, boxes.....	1771	35.00
R. B. Thompson, lumber.....	1772	35.05
Eimer & Amend, reagent bottles.....	1775	35.14
The University Book Store, books.....	1780	89.70
Minneapolis Gas Light Co., gas.....	1781	26.92
The Minneapolis General Electric Co., electric lighting.....	1782	.02
Miss Ellen Forelle, charts for histology and embryology.....	1786	6.50
Th. Stauffer, books.....	1788	52.87
D. W. Sprague, accountant, freight, express, postage and extra help	1796	49.87
Petty bills, miscellaneous supplies.....	1797	4.92
The Minneapolis General Electric Co., electric lighting.....	1840	.02
Minneapolis Gas Light Co., gas.....	1842	27.29
Stremel Bros., lining grip.....	1845	5.55
Paul B. Hoeber, books.....	1846	16.80
F. F. Westbrook, sundry disbursements.....	1849	5.15
Petty bills, miscellaneous supplies.....	1850	2.74
D. W. Sprague, accountant, freight, express, postage and extra help	1851	131.36
Total		\$48,822.94

THE COLLEGE OF HOMEOPATHIC MEDICINE AND SURGERY.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Alonzo P. Williamson, dean.....	...	\$500.00
William E. Leonard, professor.....	...	400.00
George E. Clark, professor.....	...	300.00
George E. Ricker, professor.....	...	300.00
B. Harvey Ogden, professor.....	...	300.00
Minneapolis Pharmacy Co., drugs.....	27	8.83
Chas. H. Cirkler, medical supplies.....	42	11.71
Y. M. C. A. of U. of Minn., advertising.....	46	8.00
Minneapolis Pharmacy Co., drugs.....	50	7.14
Magazine Publishing Co., advertising.....	57	25.00
Petty bills, miscellaneous supplies.....	58	1.10
Chas. H. Cirkler, chemicals.....	88	5.30
Minneapolis Gas Light Co., gas.....	195	2.34
Chas. H. Cirkler, chemical supplies.....	247	13.48
Minneapolis Pharmacy Co., drugs.....	254	5.30
Petty bills, miscellaneous supplies.....	265	14.04
Minneapolis Gas Light Co., gas.....	354	6.58
Boutell Bros., furniture.....	429	3.75
Boutell Bros., one shade.....	439	1.25
Andrus Building Pharmacy, vials.....	440	5.00
Chas. H. Cirkler, physicians' supplies.....	441	16.57
Petty bills, miscellaneous supplies.....	449	8.21
Minneapolis Pharmacy Co., drugs.....	571	12.05
Hegna Dry Goods Co., dry goods.....	583	10.64
Minneapolis Gas Light Co., gas.....	588	8.80
Chas. H. Cirkler, physicians' supplies.....	595	5.70
The Minneapolis General Electric Co., electric lighting.....	615	2.56
Petty bills, miscellaneous supplies.....	641	1.50
Minneapolis Gas Light Co., gas.....	700	7.20
Andrus Building Pharmacy, vials.....	752	5.00
Minneapolis Gas Light Co., gas.....	830	7.56
The Minnesota Daily, advertising.....	837	20.00
W. S. Nott Co., gauge glass.....	843	.20
Andrus Building Pharmacy, vials.....	890	6.00
Minneapolis Pharmacy Co., drugs.....	905	17.29
The Minneapolis General Electric Co., electric lighting.....	907	2.14
American Linen Supply Co., linen.....	910	33.19
Petty bills, miscellaneous supplies.....	917	5.65
Whittlesey Gas & Electric Fixture Co., bracket.....	1037	6.75
Minneapolis Pharmacy Co., drugs.....	1039	15.17

	No. Voucher.	Amount.
Minneapolis Gas Light Co., gas.....	1091	8.02
N. W. Telephone Exchange Co., service December, January and February	1093	6.90
The Minneapolis General Electric Co., electric lighting.....	1097	1.94
Minneapolis Gas Light Co., gas.....	1175	8.22
Thomas K. Gray, drugs.....	1196	2.70
Chas. H. Cirkler, chemicals.....	1250	13.61
Petty bills, miscellaneous supplies.....	1282	7.60
Minneapolis Gas Light Co., gas.....	1354	5.82
Fred J. Scott, printing.....	1355	5.00
The John Leslie Paper Co., paper.....	1360	2.50
Minneapolis Pharmacy Co., drugs.....	1429	16.49
Petty bills, miscellaneous supplies.....	1507	5.05
American Linen Supply Co., linen.....	1508	3.17
American Linen Supply Co., linen.....	1509	3.18
Minneapolis Gas Light Co., gas.....	1563	6.40
Minneapolis Pharmacy Co., drugs.....	1616	16.30
Chas. H. Cirkler, drugs.....	1618	1.50
The 1903 Gopher, advertising.....	1620	15.00
Petty bills, miscellaneous supplies.....	1654	2.33
Minneapolis Pharmacy Co., drugs.....	1667	8.10
Minneapolis Gas Light Co., gas.....	1781	1.50
D. W. Sprague, accountant, freight, express, postage and extra help	1796	10.00
Petty bills, miscellaneous supplies.....	1797	.90
Minneapolis Gas Light Co., gas.....	1842	.92
Minneapolis Pharmacy Co., drugs.....	1843	11.38
Petty bills, miscellaneous supplies.....	1850	3.30
Total		\$2,278.83

THE COLLEGE OF DENTISTRY.

CURRENT EXPENSE.

	No. Voucher.	Amount.
William P. Dickinson, dean.....	...	\$1,800.00
Oscar A. Weiss, professor.....	...	1,500.00
Alfred Owre, instructor.....	...	1,500.00
Thomas B. Hartzell, professor.....	...	750.00
Chas. A. Van Duzee, instructor.....	...	1,200.00
Hugh M. Reid, instructor.....	...	1,100.00
James O. Wells, instructor.....	...	800.00
E. Franklyn Hertz, instructor.....	...	800.00
Frank R. Wright, instructor.....	...	450.00
Mary V. Hartzell, instructor.....	...	300.00
John Irwin, storekeeper.....	...	450.00
Y. M. C. A. of U. of Minn., advertising.....	46	5.00
The University Press, stationery.....	182	10.00
W. K. Morrison & Co., hardware.....	187	12.05
R. B. Thompson, lumber.....	189	6.39
Lyman-Eliel Drug Co., drugs.....	194	27.46
Minneapolis Gas Light Co., gas.....	195	4.68
Jas. T. Ingersoll, teeth.....	251	346.00
Marshall-Shafer-Pierce Co., dental supplies.....	252	38.79
M. F. Patterson, dental supplies.....	253	66.38
Minneapolis Gas Light Co., gas.....	354	13.16
The Plumbing and Steamfitting Supplies Co., plumbing materials	355	1.22
The University Press, stationery.....	401	10.50
Lyman-Eliel Drug Co., drugs.....	425	9.00
Jas. T. Ingersoll, teeth.....	442	70.29
M. F. Patterson, dental supplies.....	443	313.42
Marshall-Shafer-Pierce Co., dental supplies.....	444	79.49
Marshall-Shafer-Pierce Co., dental supplies.....	573	175.59
M. F. Patterson, dental supplies.....	574	173.61
Minneapolis Gas Light Co., gas.....	588	17.60
Minneapolis Gas Light Co., gas.....	700	14.40
M. F. Patterson, dental supplies.....	753	61.79
Marshall-Shafer-Pierce Co., dental supplies.....	754	5.98
Jas. T. Ingersoll, dental supplies.....	755	26.90
Lyman-Eliel Drug Co., drugs.....	757	2.35
Minneapolis Gas Light Co., gas.....	830	12.00
American Linen Supply Co., linen.....	910	15.16
Electrical Engineering Co., wire.....	1017	9.22
Lyman-Eliel Drug Co., drugs.....	1033	12.10
M. F. Patterson, dental supplies.....	1035	400.85
Marshall-Shafer-Pierce Co., dental supplies.....	1038	331.28

	No. Voucher.	Amount.
W. K. Morrison & Co., hardware.....	1047	1.95
The University Daily, advertising.....	1048	20.00
The University Press, stationery.....	1066	11.00
Minneapolis Gas Light Co., gas.....	1091	16.04
Petty bills, miscellaneous supplies.....	1094	4.60
Minneapolis Gas Light Co., gas.....	1175	16.44
W. K. Morrison & Co., hardware.....	1190	2.00
M. F. Patterson, dental supplies.....	1247	233.42
Marshall-Shafer-Pierce Co., dental supplies.....	1248	123.51
Flour City Ornamental Iron Works, counter railing.....	1249	35.00
Jas. T. Ingersoll, dental materials.....	1279	59.89
Minneapolis Gas Light Co., gas.....	1354	11.64
The John Leslie Paper Co., paper.....	1360	6.25
American Linen Supply Co., linen.....	1508	1.54
American Linen Supply Co., linen.....	1509	1.54
Minneapolis Gas Light Co., gas.....	1563	12.80
M. F. Patterson, dental supplies.....	1615	252.25
Marshall-Shafer-Pierce Co., dental supplies.....	1619	277.33
Lyman-Elie! Drug Co., drugs.....	1730	6.19
Minneapolis Gas Light Co., gas.....	1781	3.00
Minneapolis Gas Light Co., gas.....	1842	1.84
Total		\$14,020.83

THE COLLEGE OF PHARMACY.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Frederick J. Wulling, dean.....	...	\$2,400.00
Bernhard L. Leubner, instructor.....	...	750.00
Frederick K. Butters, instructor.....	...	585.00
Frank Colburn, janitor.....	...	177.50
Y. M. C. A. of U. of Minn., advertising.....	46	5.00
W. L. Brown, manager, advertising.....	60	5.00
Minneapolis Gas Light Co., gas.....	101	2.73
Minneapolis Gas Light Co., gas.....	195	2.56
The University Book Store, stationery.....	200	4.00
Noyes Bros. & Cutler, drugs.....	212	8.74
D. W. Sprague, accountant, freight, express, postage and extra help	266	.25
Minneapolis Gas Light Co., gas.....	354	7.49
Noyes Bros. & Cutler, drugs.....	357	12.39
Lyman-Elie! Drug Co., drugs.....	425	20.32
Emil Borgmann, books.....	436	25.00
Spatula Publishing Co., books.....	437	5.00
The Northwestern Druggist, advertising.....	438	36.00
Petty bills, miscellaneous supplies.....	449	2.50
The Pioneer Fuel Co., coal.....	538	.....
Noyes Bros. & Cutler, drugs.....	559	15.93
Minneapolis Gas Light Co., gas.....	588	6.64
Simonson Bros. Manufacturing Co., lecture table.....	594	35.00
Frederick J. Wulling, sundry disbursements.....	616	75.62
D. W. Sprague, accountant, freight, express, postage and extra help	631	4.64
Minneapolis Gas Light Co., gas.....	700	6.89
D. W. Sprague, accountant, freight, express, postage and extra help	768	3.38
F. O. Boyd & Co., alcohol.....	711	22.33
Minneapolis Gas Light Co., gas.....	830	4.37
Richards & Co., Limited. dishes.....	885	10.15
Western Publishing House, book.....	891	12.50
Noyes Bros. & Cutler, drugs.....	892	16.53
Elijah J. Molloy, white filters.....	895	11.25
Lyman-Elie! Drug Co., drugs.....	906	7.62
The Minneapolis General Electric Co., electric lighting.....	907	.....
American Linen Supply Co., linen.....	910	9.90
D. W. Sprague, accountant, freight, express, postage and extra help	918	2.60
The University Book Store, stationery.....	1032	13.62
Lyman-Elie! Drug Co., drugs.....	1033	8.15
New England Furniture & Carpet Co., stools.....	1036	10.50
Noyes Bros. & Cutler, drugs.....	1044	81.67
The Minnesota Daily, advertising.....	1048	20.00
Lehn, & Fink, drugs.....	1071	46.84
Eimer & Amend, bottles and crucibles.....	1072	6.14

	No. Voucher.	Amount.
Minneapolis Gas Light Co., gas.....	1091	4.01
Petty bills, miscellaneous supplies.....	1094	3.58
Noyes Bros. & Cutler, drugs.....	1173	4.90
Minneapolis Gas Light Co., gas.....	1175	4.61
Lyman-Elie! Drug Co., drugs.....	1227	10.02
O. P. Koting, tinting and varnishing.....	1246	28.00
D. W. Sprague, accountant, freight, express, postage and extra help	1283	2.14
Minneapolis Gas Light Co., gas.....	1354	5.38
The John Leslie Paper Co., paper.....	1360	2.50
Noyes Bros. & Cutler, drugs.....	1409	84.34
Emil Borgmann, books.....	1417	36.00
N. P. Dahlin, binding.....	1426	15.25
Lyman-Elie! Drug Co., drugs.....	1461	9.78
D. W. Sprague, accountant, freight, express, postage and extra help	1511	2.83
Minneapolis Gas Light Co., gas.....	1563	3.17
Noyes Bros. & Cutler, drugs.....	1584	17.42
The University Book Store, stationery.....	1604	10.42
Geo. Douglas Head, M. D., services in clinic microscopy.....	1614	135.00
Yawman & Erbe Manufacturing Co., bookcase sections.....	1622	18.00
Frederick J. Wulling, sundry disbursements.....	1638	59.57
Frederick J. Wulling, paid for clerical services.....	1639	100.00
Chas. H. Zander, services in Pharmacy.....	1642	14.00
Lyman-Elie! Drug Co., drugs.....	1730	13.71
Minneapolis Gas Light Co., gas.....	1781	3.62
Minneapolis Gas Light Co., gas.....	1842	3.55
The Northwestern Druggist, advertising.....	1844	36.00
Total		\$5,109.53

SCHOOL OF AGRICULTURE.

CURRENT EXPENSE.

	No. Voucher.	Amount.
William M. Liggett, dean.....	...	\$2,000.04
John A. Vye, secretary.....	...	750.00
W. M. Hays, professor.....	...	.....
Frederick D. Tucker, principal.....	...	1,800.00
Charles R. Aldrich, instructor.....	...	600.00
William Robertson, instructor.....	...	999.98
J. M. Drew, instructor.....	...	1,050.00
E. W. Mahood, instructor.....	...	900.00
J. L. Shepperd, instructor.....	...	720.00
Margaret Blair, instructor.....	...	700.00
Virginia C. Meredith, preceptress.....	...	1,500.00
Charles F. Keyes, instructor.....	...	600.00
Sophie M. Pendergast, instructor.....	...	900.00
Grace B. Whitridge, instructor.....	...	180.00
Mary L. Bull, instructor.....	...	360.00
John A. Hummel, instructor.....	...	200.04
Isabel D. Parker, instructor.....	...	360.00
Kate Oliver, stenographer.....	...	720.00
Christian Anderson, janitor.....	...	720.00
William Boss, engineer.....	...	565.55
Assistants and laborers.....	...	6,060.57
Students' payrolls .....	...	953.27
H. F. Bender, treasurer, fire alarm telegraph.....	115	125.00
H. Crawford, 40 book covers.....	117	5.00
Henry W. Howling, mounting animals.....	121	15.50
W. K. Morrison & Co., hardware.....	131	.70
C. W. Meneilly, groceries.....	132	9.28
Northwestern Fuel Co., coal.....	137	609.95
J. A. Vye, secretary, sundry disbursements.....	165	52.50
Louis Bentsen, papering.....	270	6.50
Wm. Donaldson & Co., settee and three chairs.....	273	48.50
Eagle Printing Co., printing.....	275	95.60
Forman, Ford & Co., paint materials.....	279	6.44
General Electric Co., electric supplies.....	280	26.67
P. Howard, painting buggy.....	285	13.75
Janney, Semple, Hill & Co., hardware.....	287	42.72
Kayser & Co., papering.....	288	8.55
The John Leslie Paper Co., paper.....	291	10.24
The John Leslie Paper Co., paper.....	292	5.47
Munson Stationery Co., stationery.....	295	17.63
W. K. Morrison & Co., hardware.....	297	10.75

	No. Voucher.	Amount.
Minneapolis Iron Store Co., hardware.....	302	3.92
Minneapolis Gas Light Co., gas supplies.....	303	2.97
New England Furniture & Carpet Co., settee.....	307	12.00
North Star Steam Dye Works, cleaning curtains.....	309	5.50
O'Gara, King & Co., coal.....	310	305.28
S. E. Olson Co., chairs and curtains.....	311	15.40
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	312	25.24
J. A. Vye, secretary, sundry disbursements.....	327	150.93
Adolph Poirier, brooms.....	328	32.57
Butler, Sheldon & Co., 50 copies "Physics".....	463	50.00
Beard Art & Stationery Co., four pictures.....	464	11.00
American Book Co., 25 Curtis manuals.....	466	13.20
Boutell Bros., mat and sweeper.....	467	9.00
The Chemical Furnishing Co., 135 copies dairying books.....	468	135.00
Columbia Shade Cloth Co., shades.....	471	17.06
Wm. Donaldson & Co., rattan chair.....	474	9.75
Dearborn Drug & Chemical Works, boiler compound and oil....	475	25.93
Eagle Printing Co., stationery.....	477	4.50
Field, Schlick & Co., dry goods.....	479	14.52
Forman, Ford & Co., machine oil, etc.....	480	3.35
Frank W. Greaves & Co., maple squares.....	481	11.70
Howard, Farwell & Co., rent and tuning of piano.....	484	6.00
D. C. Heath & Co., 50 algebras.....	488	37.50
Longmans, Green & Co., 15 "Taming of Shrew".....	493	4.64
W. M. Liggett, one-half expense trip to Washington....	498	42.25
The Macmillan Co., six "Jordan Animals".....	499	8.15
W. K. Morrison & Co., hardware.....	501	1.73
Minneapolis Iron Store Co., hardware.....	502	71.10
Minneapolis Dry Goods Co., blankets and spread.....	507	9.48
S. E. Olson Co., dry goods.....	508	7.85
Phoenix Chair Co., five dozen chairs.....	509	35.00
Winfield C. Porter, four dozen lantern slides.....	510	20.00
John A. Schlener & Co., stationery.....	515	3.40
Singer Manufacturing Co., sewing machine.....	516	25.00
Fred J. Scott, 1,500 jackets.....	517	4.25
Standard Oil Co., three oil stoves and oven.....	519	17.00
Wilcox & Gibbs S. M. Co., automatic machine (balance).....	525	45.00
Webb Publishing Co., 100 books on Breeds.....	526	97.05
Wyckoff, Seamans & Benedict, typewriter supplies.....	528	3.92
Wheeler & Wilcox Manufacturing Co., one machine.....	531	23.00
White Sewing Machine Co., one machine (balance).....	532	20.00
Edwin R. Williams, draughting supplies.....	534	12.93
St. Anthony Hardware Co., hardware.....	535	12.87
Boutell Bros., 54 maple chairs.....	644	108.00
Crucible Steel Co., crescent tools.....	648	15.62
H. L. Collins Co., stationery.....	651	10.50
Oliver Ditson Co., 200 patriotic songs.....	652	80.00
Eagle Printing Co., printing.....	655	8.00
C. L. Fisk, 12 warehouse brooms.....	656	4.50
Ginn & Co., books.....	660	234.18
W. K. Morrison & Co., hardware.....	665	7.43
Metropolitan Music Co., three bugles.....	667	9.00
Minnesota Soap Co., 274 pounds fig soap.....	668	14.39
Minneapolis Office & School Furniture Co., slate blackboard....	669	5.00
Minneapolis Iron Store Co., hardware.....	670	25.31
The Macmillan Co., 36 grammars.....	672	19.50
N. W. Compo Board Co., blackboards.....	675	10.44
St. Anthony Hardware Co., hardware.....	683	2.70
St. Anthony Furniture Co., furniture.....	684	15.00
J. A. Vye, secretary, sundry disbursements.....	689	131.67
J. A. Vye, secretary, sundry disbursements.....	690	48.27
J. A. Vye, secretary, delegation dinners.....	691	18.00
Western Display Co., signs, State Fair Grounds.....	692	4.50
The John Leslie Paper Co., paper.....	696	48.15
American Gardening, subscription.....	772	7.00
Alfred Andresen & Co., spinning wheel, etc.....	774	5.00
Brooks Bros., lumber.....	776	41.70
Bramblett & Beygeh, photo.....	778	4.35
Eagle Printing Co., printing.....	785	46.75
Electrical Engineering Co., electrical supplies.....	786	10.02
Farm, Stock & Home Co., 100 "Fruit Growing".....	787	30.00
Field, Schlick & Co., dry goods.....	790	5.24
C. W. Gray Printing Co., circulars.....	791	5.40
Howard, Farwell & Co., rent of piano two months.....	792	8.00
Janney, Semple, Hill & Co., hardware.....	794	7.15
Lyman-Eliehl Drug Co., drugs.....	796	1.55
The John Leslie Paper Co., paper.....	797	18.45
Minneapolis Iron Store Co., steel.....	799	26.52
Mannheimer Bros., dry goods.....	800	10.94
W. K. Morrison & Co., hardware.....	802	2.11
Northern Machinery Co., two rip saws.....	806	4.75

	No. Voucher.	Amount.
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	808	9.09
Reichard & Pattee, steam supplies.....	809	14.10
St. Anthony Hardware Co., hardware.....	810	14.00
St. Paul Book & Stationery Co., fashion magazines.....	812	6.00
John A. Schlener & Co., stationery.....	813	9.61
Standard Foundry, Tupper grates (one-half).....	814	2.69
R. B. Thompson, lumber.....	817	67.30
E. B. Voorhees, secretary and treasurer, fees in Association Col- leges and Stations.....	818	15.00
J. A. Vye, secretary, sundry disbursements.....	824	14.37
American Book Co., books.....	923	89.46
The Chemical Publishing Co., 30 copies "Soils and Fertilizers".....	929	30.00
The Eagle Printing Co., blank books.....	935	54.18
Electrical Engineering Co., electrical supplies.....	936	7.80
Forman, Ford & Co., glass, etc.....	938	35.59
Henry Holt & Co., 35 "Chemistry".....	941	23.34
W. G. Johnson, work on cabinet.....	946	10.00
Janney, Semple, Hill & Co., hardware.....	947	2.86
W. W. Kimball Co., piano rent five months.....	950	20.00
John Leslie Paper Co., paper.....	952	6.50
Lyman-Eliel Drug Co., drugs.....	954	.90
W. K. Morrison & Co., hardware.....	956	10.31
Minneapolis Iron Store Co., hardware.....	958	95.49
Munson Stationery Co., stationery.....	959	7.11
R. A. Pike & Co., bone cutter.....	966	17.00
St. Anthony Hardware Co., hardware.....	971	1.45
John A. Schlener & Co., stationery.....	972	1.65
R. B. Thompson, oak.....	974	37.10
Twin City Telephone Co., telephone rent.....	977	6.00
Webb Publishing Co., books.....	978	108.05
Webb Publishing Co., books.....	979	22.50
Edwin R. Williams, draughting supplies.....	981	72.90
J. A. Vye, secretary, sundry disbursements.....	983	26.30
J. A. Vye, secretary, delegation dinners.....	984	28.00
J. A. Vye, secretary, sundry disbursements.....	986	10.47
W. G. Johnson, work on case.....	987	10.20
Allyn & Bacon, six "Rhetorics".....	1102	5.00
Chas. R. Aldrich, draughting supplies.....	1104	32.77
Bausch & Lomb Optical Co., 25 microscopes.....	1106	46.88
Boutell Bros., mattress and spring.....	1107	9.00
Brooks Bros., lumber.....	1108	121.10
A. H. Barber Manufacturing Co., ammonia.....	1110	26.34
Dearborn Drug & Chemical Works, one barrel oil.....	1114	22.65
Eagle Printing Co., class slips.....	1116	1.50
Forman, Ford & Co., glass.....	1118	4.47
E. C. Hall, 28 yards cement walk.....	1119	20.40
H. O. Hall, 26 9-40 yards cement walk.....	1120	20.98
Howard, Farwell & Co., piano rent two months.....	1123	8.00
Jones & Adams Co., coal.....	1124	97.65
Janney, Semple, Hill & Co., rope.....	1125	10.60
W. G. Johnson, work in Girls' Building.....	1126	3.40
John Leslie Paper Co., paper.....	1129	28.49
W. K. Morrison & Co., hardware.....	1135	7.21
Minneapolis Iron Store Co., steel.....	1136	13.36
McDonald Bros., 15 jars.....	1137	6.30
Northwestern Fuel Co., coal.....	1138	971.08
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	1145	13.15
St. Anthony Hardware Co., hardware.....	1147	2.50
John A. Schlener & Co., stationery.....	1149	1.30
R. B. Thompson, lumber.....	1152	81.75
Twin City Telephone Co., rental.....	1153	6.00
The University Book Store, stationery.....	1154	7.39
Union Railway Storage Co., building material.....	1155	6.52
Webb Publishing Co., 20 "Study of Breeds".....	1158	19.60
Louis Dreka, diplomas.....	1163	90.00
D. W. Sprague, diploma ribbon.....	1164	9.92
D. W. Sprague, engrossing 70 diplomas.....	1165	35.00
Minneapolis Dry Goods Co., Roman chair.....	1166	5.00
M. M. Stiffey, sundry disbursements.....	1167	43.65
J. A. Vye, secretary, sundry disbursements.....	1168	74.08
J. A. Vye, secretary, sundry disbursements.....	1169	2.26
C. A. Brace, 9 3-20 yards cement walk.....	1289	7.32
S. E. Brace, Jr., & Co., five mattresses.....	1290	11.30
Brooks Bros., lumber.....	1294	13.75
City of St. Paul, taking patients at infirmary.....	1296	251.00
Danz Orchestra, music at commencement.....	1300	24.00
Forman, Ford & Co., glazing materials.....	1302	11.79
H. B. Hudson, assistance to Dean Liggett.....	1307	80.00
W. G. Johnson, work in meat house.....	1312	41.80
Lyman-Eliel Drug Co., drugs.....	1316	1.80
McClellan Paper Co., paper.....	1317	6.58

	No. Voucher.	Amount.
John Leslie Paper Co., paper.....	1318	17.61
Munson Stationery Co., stationery.....	1320	2.75
Mannheimer Bros., seven mattresses.....	1321	26.95
Minneapolis Iron Store Co., steel, etc.....	1322	25.05
Powers Mercantile Co., dry goods.....	1329	22.64
Plumbing & Steamfitting Supplies Co., valves, etc.....	1330	8.08
M. M. Steffey, labor and supplies.....	1332	12.20
Fred J. Scott, printing.....	1338	20.50
Twin City Telephone Co., line rental.....	1339	6.30
The University Book Store, two dictionaries.....	1341	17.10
American Grass Twine Co., 50½ yards matting.....	1514	11.11
Chas. R. Aldrich, bunting.....	1515	8.10
Eagle Printing Co., printing.....	1521	2.50
C. W. Gray, printing.....	1524	2.40
McClellan Paper Co., paper.....	1537	6.30
Twin City Telephone Co., line rental.....	1551	6.00
Webb Publishing Co., stationery.....	1554	26.75
J. A. Vye, secretary, sundry disbursements.....	1557	28.68
Beard Art & Stationery Co., framed picture.....	1681	8.50
Drainage Journal, five copies.....	1684	10.00
Hoard's Dairyman, five bound volumes.....	1691	15.00
Northwestern Fuel Co., coal.....	1705	926.08
W. S. Nott Co., three fire extinguishers.....	1708	36.00
Luther Tucker & Son, five volumes "Country Gentleman".....	1718	17.50
Twin City Telephone Co., rental.....	1721	6.00
Wyckoff, Seamans & Benedict, typewriter.....	1726	92.25
J. A. Vye, secretary, sundry disbursements.....	1728	11.65
Farwell, Ozmun, Kirk & Co., hardware.....	1803	6.45
The Macmillan Co., Volumes III. and IV., Cyclopedias.....	1810	10.00
Northwestern Fuel Co., coal.....	1814	87.61
Twin City Telephone Co., rental.....	1822	6.00
The University Book Store, books.....	1823	2.60
J. A. Vye, secretary, sundry disbursements.....	1827	68.05
Brooks Bros., lumber.....	1852	12.03
Currier & Ballentine, 3,000 circulars.....	1856	22.00
Forman, Ford & Co., painters' supplies.....	1862	10.11
The John Leslie Paper Co., paper.....	1870	10.37
John A. Schlener & Co., stationery.....	1884	2.75
Wishart & Hanson, work on Dairy Building.....	1888	16.55
Bramblett & Beygeh, photos.....	1895	8.97
C. W. Gray Printing Co., printing.....	1898	3.30
Wyckoff, Seamans & Benedict, stationery.....	1899	3.73
J. A. Vye, secretary, sundry disbursements.....	1901	47.73
Total		\$30,956.42

Division of Agriculture.**CURRENT EXPENSE.**

	No. Voucher.	Amount.
Willet M. Hays, professor.....	...	\$1,200.00
Andrew Boss, assistant.....	...	593.28
Students' payrolls .....	...	2.76
J. A. Vye, secretary, sundry disbursements.....	690	2.65
John A. Schlener & Co., stationery.....	813	.59
John A. Schlener & Co., stationery.....	972	1.50
Total		\$1,800.78

Division of Chemistry.**CURRENT EXPENSE.**

	No. Voucher.	Amount.
Harry Snyder, professor.....	...	\$1,400.04
Assistants and laborers.....	...	613.81
Students' payrolls .....	...	49.22
J. A. Vye, secretary, sundry disbursements.....	165	9.68
Eagle Printing Co., printing.....	276	6.00
Munson Stationery Co., stationery.....	295	4.50
J. A. Vye, secretary, sundry disbursements.....	327	4.85
Bausch & Lomb Optical Co., chemicals.....	465	193.17

	No. Voucher.	Amount
St. Anthony Hardware Co., hardware.....	535	1.50
Bausch & Lomb Optical Co., two measures.....	646	1.56
Eimer & Amend, platin. dishes and crucibles.....	653	18.16
Northwestern Fuel Co., coal.....	676	150.00
Standard Oil Co., gasoline.....	688	68.55
J. A. Vye, secretary, sundry disbursements.....	689	14.36
J. A. Vye, secretary, sundry disbursements.....	690	.90
Northwestern Fuel Co., coal.....	803	186.63
Noyes Bros. & Cutler, drugs.....	807	1.50
J. A. Vye, secretary, sundry disbursements.....	824	1.25
Noyes Bros. & Cutler, drugs.....	963	10.88
John A. Schlener & Co., stationery.....	972	3.50
J. A. Vye, secretary, sundry disbursements.....	983	2.50
St. Anthony Hardware Co., hardware.....	1147	1.80
Wyckoff, Seamans & Benedict, repairing typewriter.....	1156	.90
J. A. Vye, secretary, sundry disbursements.....	1168	1.93
Munson Stationery Co., stationery.....	1320	1.25
G. E. Stechert, books.....	1336	45.19
Wyckoff, Seamans & Benedict, stationery.....	1342	2.00
Minneapolis Paper Co., paper.....	1538	4.72
J. A. Vye, secretary, sundry disbursements.....	1557	3.75
H. Crawford Co., 35 covers and binders.....	1682	8.76
John A. Schlener & Co., stationery.....	1729	8.20
Harrison & Smith Co., stationery.....	1868	3.00
Total		\$2,824.06

Division of Entomology.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Frederick L. Washburn, professor.....	...	\$200.00

Division of Horticulture.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Samuel B. Green, professor.....	...	\$1,200.00
R. S. Mackintosh, assistant.....	...	600.00
Assistants and laborers.....	...	1,791.30
Students' payrolls .....	...	107.76
J. A. Vye, secretary, sundry disbursements.....	327	2.35
Northwestern Fuel Co., coal.....	504	167.59
J. M. Thorburn & Co., plants.....	520	8.14
Northwestern Fuel Co., coal.....	676	400.00
J. A. Vye, secretary, sundry disbursements.....	689	3.00
J. A. Vye, secretary, sundry disbursements.....	1690	8.74
W. K. Morrison & Co., hardware.....	802	4.50
Northwestern Fuel Co., coal.....	803	400.00
St. Anthony Hardware Co., hardware.....	810	48.00
J. A. Vye, secretary, sundry disbursements.....	824	.55
Bromo Cutlery Works, knives.....	926	11.25
Brooks Bros., lumber.....	927	14.90
Kinne Manufacturing Co., tinware.....	949	5.50
W. K. Morrison & Co., hardware.....	956	.38
Northrup, King & Co., seeds.....	961	2.28
Noyes Bros. & Cutler, drugs.....	963	3.07
Swahn Pottery Manufacturing Co., 600 pots.....	969	11.88
St. Anthony Hardware Co., hardware.....	971	2.90
J. A. Vye, secretary, sundry disbursements.....	983	5.34
Drake Mantel & Tile Co., tiling.....	1115	8.00
Plumbing & Steamfitting Supplies Co., oakum.....	1145	1.25
Swahn Pottery Manufacturing Co., 1,200 pots.....	1151	6.30
Warner Hardware Co., 11 padlocks.....	1159	5.73
Peter Osborn, work on tables and hones.....	1161	4.22
Brooks Bros., lumber.....	1294	8.15
Union Railway Storage Co., plaster.....	1340	.75
The University Book Store, book.....	1341	2.75
C. W. Gray, printing.....	1524	1.20
Northrup, King & Co., seed.....	1543	1.73
J. A. Vye, secretary, sundry disbursements.....	1557	22.47
Janney, Semple, Hill & Co., one garden barrow.....	1695	.....
McClellan Paper Co., paper.....	1873	6.00
Total		\$4,867.98

Division of Animal Husbandry.**CURRENT EXPENSE.**

	No. Voucher.	Amount.
Thomas Shaw, professor.....	...	\$800.00
The John Leslie Paper Co., paper.....	291	3.00
J. A. Vye, secretary, sundry disbursements.....	690	2.91
Northwestern Fuel Co., coal.....	803	100.00
The Northwestern Lime Co., lime.....	1877	3.80
Total		\$909.71

Division of Dairy Husbandry.**CURRENT EXPENSE.**

	No. Voucher.	Amount.
T. L. Haecker, professor.....	...	\$1,200.00
E. W. Major, assistant.....	...	666.64
Assistants and laborers.....	...	4,429.45
Students' payrolls .....	...	504.78
Bemis Bros. Bag Co., burlaps.....	113	4.59
Freeman & Lanpher, mill feed.....	119	68.00
Harrison & Smith Co., stationery.....	122	22.50
J. A. Vye, secretary, sundry disbursements.....	165	147.51
Brooks Bros., lumber.....	268	5.15
J. S. Butler, one visit.....	269	5.00
I. J. Flaten & Co., hay.....	277	44.00
Glucose Sugar Refining Co., six tons gluten meal.....	281	162.00
T. L. Haecker, travel, Madison.....	283	7.50
Harrison & Smith Co., stationery.....	284	22.50
C. C. Lyford, autopsy visits.....	290	5.00
Pierce Bros., oats.....	313	102.27
Pierce Bros., corn.....	314	194.25
St. Anthony Hardware Co., hardware.....	321	2.30
J. A. Vye, secretary, sundry disbursements.....	327	55.24
Adolph Poirier, brooms.....	328	4.25
Northern Linseed Oil Co., one ton oil meal.....	330	26.50
Freeman & Lanpher, mill feed.....	331	59.50
Creamery Package Manufacturing Co., creamery supplies.....	469	16.53
Freeman & Lanpher, mill feed.....	478	42.00
E. V. King & Co., 25,355 pounds hay.....	491	107.76
Pierce Bros., 265 bushels barley.....	514	153.70
Union Railway Storage Co., one ton plaster.....	523	8.00
St. Anthony Hardware Co., hardware.....	535	3.30
Freeman & Lanpher, mill feed.....	659	63.00
John W. Irwin, Holstein cow.....	661	80.00
Minnesota Sugar Co., pulp.....	666	29.65
Northwestern Fuel Co., coal.....	676	519.04
Olof Olsen, 42,800 pounds hay.....	679	136.96
John W. Scott, Ayrshire cow.....	685	95.00
Swen Swenson, Holstein cow.....	686	80.00
F. A. Squires, Swiss cow.....	687	125.00
J. A. Vye, secretary, sundry disbursements.....	689	152.74
J. A. Vye, secretary, sundry disbursements.....	690	42.54
Brooks Bros., shavings.....	776	1.25
Creamery Package Manufacturing Co., creamery supplies.....	780	13.18
Eagle Printing Co., printing.....	785	5.00
Freeman & Lanpher, bran.....	788	80.60
Freeman & Lanpher, bran.....	789	111.05
Janney, Semple, Hill & Co., hardware.....	794	2.50
Lyman-Elieel Drug Co., drugs.....	796	20.56
Minnesota Soap Co., 262 pounds fig soap.....	801	13.76
Nichols Manufacturing Co., 300 pounds fig soap.....	804	15.00
St. Anthony Hardware Co., hardware.....	810	12.25
J. A. Vye, secretary, sundry disbursements.....	824	54.41
Brooks Bros., shavings.....	927	1.25
Crescent Creamery Co., milk.....	930	1,522.50
Eagle Printing Co., stationery.....	933	44.00
Eagle Printing Co., milk receipt books.....	934	22.50
Harrison & Smith Co., 1,000 letter heads.....	945	3.50
Lyman-Elieel Drug Co., drugs.....	954	27.53
W. K. Morrison & Co., hardware.....	956	1.00

	No. Voucher.	Amount.
Minneapolis Dry Goods Co., dry goods.....	957	21.28
John A. Schlener & Co., stationery.....	972	1.00
J. A. Vye, secretary, sundry disbursements.....	983	47.14
J. A. Vye, secretary, sundry disbursements.....	985	12.17
Brooks Bros., shavings.....	1108	2.50
Creamery Package Manufacturing Co., creamery supplies.....	1113	11.26
Forman, Ford & Co., glass.....	1118	.73
Harrison & Smith Co., stationery.....	1121	28.25
Geo. C. Hill & Son, Guernsey bull.....	1122	150.00
E. V. King & Co., 27,310 pounds hay.....	1127	88.99
John Lindig, nine tons straw.....	1130	27.50
McClellan Paper Co., 88 pounds paper.....	1132	3.96
W. K. Morrison & Co., hardware.....	1135	9.50
Northern Linseed Oil Co., oil meal.....	1140	26.00
Pierce Bros., one-half carload corn.....	1143	291.55
John A. Schlener & Co., stationery.....	1149	3.50
Union Railway Storage Co., plaster.....	1155	8.00
J. A. Vye, secretary, sundry disbursements.....	1168	31.05
O. Douglass & Co., chemicals.....	1299	25.10
Harrison & Smith Co., stationery.....	1306	19.00
A. F. Howland, oats.....	1310	115.00
Lyman-Eliel Drug Co., drugs.....	1316	2.19
St. Anthony Hardware Co., hardware.....	1331	10.70
Union Railway Storage Co., plaster.....	1340	8.00
Brooks Bros., lumber.....	1517	13.75
Creamery Package Manufacturing Co., creamery supplies.....	1518	5.55
Freeman & Lanpher, mill feed.....	1523	112.75
Kennedy & Co., hose.....	1529	8.35
Lyman-Eliel Drug Co., drugs.....	1534	5.39
Minnesota Soap Co., 469 pounds fig soap.....	1535	23.45
St. Anthony Hardware Co., hardware.....	1550	5.85
L. B. Wood, one wagon.....	1553	45.00
J. A. Vye, secretary, sundry disbursements.....	1557	61.32
Brooks Bros., shavings and lath.....	1675	5.00
Creamery Package Manufacturing Co., creamery supplies.....	1683	4.08
Freeman & Lanpher, mill feed.....	1688	63.38
Northwestern Fuel Co., coal.....	1705	401.37
Northern Linseed Oil Co., 2,000 pounds oil meal.....	1710	24.00
Spring Lawn Farm, hay.....	1717	31.05
Union Railway Storage Co., plaster.....	1722	8.00
Winston, Harper, Fisher & Co., six barrels salt.....	1724	6.00
J. A. Vye, secretary, sundry disbursements.....	1728	47.18
John A. Schlener & Co., stationery.....	1729	1.10
Creamery Package Manufacturing Co., creamery supplies.....	1800	6.28
Freeman & Lanpher, mill feed.....	1804	14.50
The John Leslie Paper Co., paper.....	1806	3.56
Lyman-Eliel Drug Co., drugs.....	1808	17.87
St. Anthony Hardware Co., hardware.....	1817	1.50
John A. Schlener & Co., stationery.....	1819	1.62
J. A. Vye, secretary, one cow.....	1824	45.00
J. A. Vye, secretary, sundry disbursements.....	1827	24.84
Brooks Bros., lumber.....	1852	21.02
Harrison & Smith Co., stationery.....	1868	10.00
John A. Schlener & Co., stationery.....	1884	.80
Zenner Disinfectant Co., disinfectants.....	1890	6.25
Eimer & Amend, rubber tubing.....	1892	2.33
The Eagle Printing Co., stationery.....	1897	9.00
Glucose Sugar Refining Co., one ton oil meal.....	1900	26.00
J. A. Vye, secretary, sundry disbursements.....	1901	19.35
Total		\$13,372.85

Division of Veterinary.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Myron M. Reynolds, professor.....	...	\$1,200.00
Assistants and laborers.....	...	185.86
Students' payrolls .....	...	8.24
Theo. Anderson, 960 pounds hay.....	150	4.80
Theo. Anderson, 630 pounds hay.....	154	3.15
Noyes Bros. & Cutler, drugs.....	304	23.21
M. H. Reynolds, sundry disbursements.....	316	1.97
Wyckoff, Seamans & Benedict, stationery.....	324	1.87

	No. Voucher.	Amount.
J. A. Vye, secretary, sundry disbursements.....	327	1.47
Theo. Anderson, hay.....	457	10.76
Theo. Anderson, 860 pounds hay.....	459	5.16
Truax Bros., oats.....	522	12.55
Noyes Bros. & Cutler, drugs.....	529	1.37
St. Anthony Hardware Co., hardware.....	535	1.10
Theo. Anderson, hay.....	642	11.49
J. A. Vye, secretary, sundry disbursements.....	689	3.41
Northwestern Fuel Co., coal.....	803	100.00
Noyes Bros. & Cutler, drugs.....	807	9.46
St. Anthony Hardware Co., hardware.....	810	1.13
Wyckoff, Seamans & Benedict, stencil and ink.....	821	2.75
J. A. Vye, secretary, sundry disbursements.....	824	1.25
Theo. Anderson, hay.....	924	11.82
Theo. Anderson, 955 pounds hay.....	925	5.73
Northwestern Fuel Co., one ton coal.....	960	4.12
Noyes Bros. & Cutler, drugs.....	963	17.17
St. Anthony Hardware Co., hardware.....	971	8.17
J. A. Vye, secretary, sundry disbursements.....	983	2.45
F. O. Boyd & Co., alcohol.....	1109	11.39
Minneapolis Iron Store Co., one bar steel.....	1136	.72
Northwestern Fuel Co., coal.....	1138	200.00
Noyes Bros. & Cutler, drugs.....	1139	27.12
St. Anthony Furniture Co., tables.....	1146	11.00
St. Anthony Hardware Co., hardware.....	1147	1.45
Twin City Telephone Co., rental.....	1153	1.50
J. A. Vye, secretary, sundry disbursements.....	1168	1.72
Noyes Bros. & Cutler, drugs.....	1325	23.50
New England Furniture & Carpet Co., brush mats.....	1327	6.50
Zimmerman Bros., chemicals.....	1347	1.90
Twin City Telephone Co., rental.....	1339	1.50
Theo. Anderson, 950 pounds hay.....	1516	5.70
A. F. Howland, oats.....	1526	42.28
New England Furniture & Carpet Co., book holder (one-half)..	1542	2.12
Twin City Telephone Co., line rental.....	1551	1.50
Truax Bros., oats.....	1552	14.35
J. A. Vye, secretary, sundry disbursements.....	1557	3.01
Theo. Anderson, hay.....	1673	11.70
Theo. Anderson, 1,990 pounds hay.....	1674	13.44
Twin City Telephone Co., rental.....	1721	1.50
J. A. Vye, secretary, sundry disbursements.....	1728	2.92
The John Leslie Paper Co., paper.....	1806	1.42
John A. Schlener & Co., stationery.....	1819	.60
Schuneman & Evans, dry goods.....	1821	4.71
Twin City Telephone Co., rental.....	1822	1.50
Zimmerman Bros., photo supplies.....	1826	5.32
J. A. Vye, secretary, sundry disbursements.....	1827	5.07
Total		\$2,045.90

EXPERIMENT STATION.**General Station.****CURRENT EXPENSE.**

	No. Voucher.	Amount.
William M. Liggett, dean.....	...	\$1,999.92
John A. Vye, secretary.....	...	750.00
Etta Matthews, stenographer.....	...	600.00
E. H. S. Dartt, agriculturist.....	...	499.92
William Boss, engineer.....	...	301.30
Assistants and laborers.....	...	4,027.51
Students' payrolls .....	...	176.35
Bramblett & Beygeh, half-tone cuts.....	112	32.26
W. K. Morrison & Co., hardware.....	131	1.30
C. L. Moffat, horseshoeing.....	133	9.50
N. W. Telephone Exchange Co., rental service.....	138	8.25
John A. Schlener & Co., stationery.....	142	4.10
John A. Schlener & Co., stationery.....	143	4.25
McGill-Warner Co., 17,000 bulletins.....	155	140.25
Minnesota Type Foundry Co., one mailer.....	156	20.00
Standard Oil Co., gasoline.....	158	6.45
McGill-Warner Co., 17,000 bulletins.....	162	242.25

	No. Voucher.	Amount.
J. A. Vye, secretary, sundry disbursements.....	165	54.07
E. H. S. Dartt, sundry disbursements.....	274	153.68
I. J. Flaten & Co., hay.....	277	33.00
General Electric Co., electric supplies.....	280	13.33
E. V. King & Co., corn and oats.....	289	19.00
The John Leslie Paper Co., paper.....	292	7.82
W. M. Liggett, travel, St. Louis.....	293	34.50
Munson Stationery Co., stationery.....	295	15.12
C. L. Moffat, horseshoeing.....	299	24.50
Minnesota State Agricultural Society, rental 25 acres.....	300	75.00
Minneapolis Gas Light Co., gas supplies.....	303	1.48
N. W. Telephone Exchange Co., line rental.....	305	8.40
N. W. Telephone Exchange Co., line rental.....	306	8.95
Northwestern Fuel Co., coal.....	308	20.62
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	312	12.62
Pierce Bros., oats.....	313	177.60
Pierce Bros., corn.....	314	111.00
Standard Oil Co., gasoline.....	318	5.50
Fred J. Scott, payrolls.....	319	8.00
J. A. Vye, secretary, sundry disbursements.....	327	110.18
Adolph Poirier, brooms.....	328	.88
C. E. Dixon, eight pullets.....	472	6.30
Dearborn Drug & Chemical Works, boiler compound.....	475	12.97
W. H. Konantz, one single harness.....	492	22.50
S. B. Loye & Sons, horse furnishings.....	496	6.00
E. C. Lindig, hauling manure.....	497	10.00
W. M. Liggett, attending meeting at Washington (one-half).....	498	42.25
C. L. Moffat, horseshoeing.....	505	13.00
John A. Schlener & Co., stationery.....	515	8.12
Fred J. Scott, 1,500 jackets.....	517	4.25
Standard Oil Co., gasoline.....	518	4.40
Thomson & Ege Carriage Co., one carriage.....	521	80.00
Wyckoff, Seamans & Benedict, typewriter supplies.....	528	3.93
C. L. Moffat, horseshoeing.....	663	27.75
McGill-Warner Co., 5,000 bulletins.....	671	31.50
N. W. Telephone Exchange Co., line rental.....	674	8.90
St. Anthony Hardware Co., hardware.....	683	2.05
Standard Oil Co., gasoline.....	688	4.40
J. A. Vye, secretary, sundry disbursements.....	689	110.90
J. A. Vye, secretary, sundry disbursements.....	690	54.46
J. A. Vye, secretary, delegation dinners.....	691	7.00
Wyckoff, Seamans & Benedict, typewriter supplies.....	693	1.50
The John Leslie Paper Co., paper.....	696	20.65
Dan Goodhue, 476.3 bushels oats.....	697	162.44
Bureau of Engraving, photos.....	775	24.75
Bramblett & Beygeh, electrotypes.....	778	7.20
Electrical Engineering Co., electrical supplies.....	786	2.27
C. W. Gray Printing Co., circulars.....	791	8.75
The John Leslie Paper Co., paper.....	797	12.58
C. L. Moffat, horseshoeing.....	798	30.50
N. W. Telephone Exchange Co., line rental.....	805	8.65
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	808	4.18
Reichard & Pattee, steam supplies.....	809	14.10
John A. Schlener & Co., stationery.....	813	4.75
Standard Foundry, Tupper grates (one-half).....	814	2.68
E. B. Voorhees, secretary and treasurer, fees in Agricultural Colleges and Stations.....	819	15.00
J. A. Vye, secretary, sundry disbursements.....	824	56.35
Brooks Bros., lumber.....	927	3.03
C. W. Gray Printing Co., printing envelopes.....	940	4.13
John Leslie Paper Co., paper.....	952	2.75
C. L. Moffat, horseshoeing.....	955	59.80
W. K. Morrison & Co., hardware.....	956	.78
N. W. Telephone Exchange Co., line rental.....	964	8.00
John A. Schlener & Co., stationery.....	972	8.30
School Meat Market, 25 pullets.....	973	8.00
Twin City Telephone Co., telephone rent.....	977	9.00
J. A. Vye, secretary, sundry disbursements.....	983	56.58
Dearborn Drug & Chemical Works, one barrel oil.....	1114	22.65
Gust Lagerquist, elevator repairs.....	1131	14.00
McGill-Warner Co., bulletins.....	1133	281.00
C. L. Moffat, horseshoeing.....	1134	28.00
Northwestern Fuel Co., coal.....	1138	300.00
Northwestern Telephone Exchange Co., line rental.....	1141	8.00
W. S. Nott Co., belting.....	1142	11.09
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	1145	13.14
St. Anthony Hardware Co., hardware.....	1147	1.45
John A. Schlener & Co., stationery.....	1149	1.90

	No. Voucher.	Amount.
Twin City Telephone Co., rental.....	1153	6.00
Union Railway Storage Co., building material.....	1155	6.53
Wyckoff, Seamans & Benedict, stationery.....	1156	4.20
Webb Publishing Co., bulletins.....	1160	364.00
J. A. Vye, secretary, sundry disbursements.....	1168	70.07
Brown & Dickey, bay horse.....	1288	180.00
Electrical Engineering Co., electrical supplies.....	1301	11.51
A. F. Howland, oats.....	1310	169.08
E. V. King & Co., 13,730 pounds hay.....	1313	44.63
John Leslie Paper Co., paper.....	1318	10.93
Munson Stationery Co., stationery.....	1320	1.25
C. L. Moffat, horseshoeing.....	1323	15.25
N. W. Telephone Exchange Co., line rental.....	1324	8.00
Plumbing & Steamfitting Supplies Co., valves, etc.....	1330	8.09
St. Anthony Hardware Co., hardware.....	1331	4.18
Twin City Telephone Co., line rental.....	1339	6.00
Union Railway Storage Co., plaster.....	1340	.85
Wyckoff, Seamans & Benedict, stationery.....	1342	5.65
William Wyman, work in sheep yards.....	1346	37.75
Brooks Bros., lumber.....	1517	.44
Borden & Selleck Co., milk scale.....	1519	4.50
Eagle Printing Co., printing.....	1521	211.25
C. W. Gray, printing.....	1524	7.20
A. F. Howland, oats.....	1526	276.29
S. B. Loye & Sons, barn supplies.....	1532	15.15
C. L. Moffat, horseshoeing.....	1539	15.75
W. T. McMurran, agent, 147 13-20 yards cement walk.....	1540	118.12
N. W. Telephone Exchange Co., line rental.....	1541	8.00
John A. Schlener & Co., stationery.....	1549	9.85
Twin City Telephone Co., rental.....	1551	6.00
Wyckoff, Seamans & Benedict, supplies and repairs.....	1555	7.50
J. A. Vye, secretary, sundry disbursements.....	1557	113.23
E. V. King & Co., 22,715 pounds hay.....	1697	96.54
The John Leslie Paper Co., paper.....	1700	9.74
C. L. Moffat, horseshoeing.....	1702	19.00
Munson Stationery Co., stationery.....	1703	3.75
Northwestern Fuel Co., coal.....	1705	50.17
N. W. Telephone Exchange Co., line rental.....	1709	8.00
Plumbing & Steamfitting Supplies Co., plumbing supplies.....	1713	4.38
J. N. Sayer, truck harness.....	1716	50.45
Spring Lawn Farm, hay.....	1717	27.95
Twin City Telephone Co., rental.....	1721	6.00
J. A. Vye, secretary, sundry disbursements.....	1728	122.28
John A. Schlener & Co., stationery.....	1729	13.20
Allen Bros., groceries.....	1798	13.33
Eagle Printing Co., printing.....	1801	22.00
Eagle Printing Co., printing.....	1802	310.00
The John Leslie Paper Co., paper.....	1806	3.50
S. B. Loye & Sons, horse furnishings.....	1807	5.56
McGill-Warner Co., printing.....	1809	398.75
C. L. Moffat, horseshoeing.....	1811	18.50
Northwestern Fuel Co., coal.....	1814	87.62
N. W. Telephone Exchange Co., line rental.....	1815	8.00
J. N. Sayer, harness materials.....	1818	9.75
John A. Schlener & Co., stationery.....	1819	3.43
Twin City Telephone Co., rental.....	1822	6.00
J. A. Vye, secretary, sundry disbursements.....	1827	28.38
Brooks Bros., lumber.....	1852	12.03
Dewey-Stevens Tag Co., 5,000 tags.....	1859	6.25
The John Leslie Paper Co., paper.....	1870	38.67
Minneapolis Iron Store Co., hardware.....	1874	8.80
N. W. Telephone Exchange Co., line rental.....	1876	8.00
R. L. Polk & Co., St. Paul Directory.....	1879	5.00
C. Peterson, 19.12 tons hay.....	1881	172.08
J. S. Rowell Manufacturing Co., cultivator.....	1882	19.50
John A. Schlener & Co., stationery.....	1884	1.25
Twin City Telephone Co., rental.....	1886	21.00
Wishart & Hansen, skylights Dairy Building.....	1888	16.55
C. W. Gray Printing Co., printing.....	1898	12.80
Wyckoff, Seamans & Benedict, supplies.....	1899	3.72
J. A. Vye, secretary, sundry disbursements.....	1901	65.35
Total		\$14,862.02

Division of Agriculture.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Willet M. Hays, professor.....	...	\$1,200.00
Andrew Boss, assistant.....	...	840.00
William Boss, engineer.....	...	111.93
Assistants and laborers.....	...	7,233.15
Students' payrolls .....	...	325.88
Brooks Bros., lumber.....	111	3.52
Bemis Bros. Bag Co., bags.....	113	77.75
J. I. Case Implement Co., top for Climax.....	116	17.50
The Denney-Stevens Tag Co., tags.....	118	4.75
Freeman & Lanpher, mill feed.....	119	16.00
Fisher Paper Box Co., 200 boxes.....	120	13.50
Janney, Semple, Hill & Co., hardware.....	123	9.16
E. V. King & Co., corn.....	124	85.30
W. W. Konantz, horse furnishings.....	125	8.00
Lindeke, Warner & Schurmeier, dry goods.....	126	7.53
Chas. T. Leonard Co., three covers.....	127	20.00
S. B. Loye & Sons, hardware.....	128	6.10
The John Leslie Paper Co., paper.....	129	28.98
Minneapolis Photo Materials Co., ortho and seeds.....	130	10.89
W. K. Morrison & Co., hardware.....	131	3.80
Minneapolis Stamp & Stencil Co., stamps.....	134	3.95
Nelson & Mattson, shotgun.....	135	6.90
C. E. Peterson, plowing.....	139	8.75
W. T. Reynolds, 45 cedar posts.....	140	7.00
J. N. Sayer, harness, etc.....	141	72.95
John A. Schlener & Co., stationery.....	142	.80
St. Anthony Hardware Co., hardware.....	144	6.95
Wyman, Partridge & Co., sheeting.....	146	11.84
D. A. Gaumnitz, sundry disbursements.....	147	24.23
Northrup, King & Co., seeds.....	149	3.66
W. M. Hays, travel.....	153	20.58
Theo. Keller, 401 bushels oats.....	160	160.40
Queen & Co., temperature cells.....	163	10.62
W. Welch, three days' plowing.....	164	10.50
J. A. Vye, secretary, sundry disbursements.....	165	39.51
Brooks Bros., lumber.....	268	20.06
Bemis Bros. Bag Co., 600 bags.....	272	87.00
Fisher Paper Box Co., 100 boxes.....	278	6.75
D. A. Gaumnitz, sundry disbursements.....	282	4.55
W. G. Johnson, work on apple seeder, etc.....	286	10.00
Chas. T. Leonard Co., 100 cock covers.....	294	40.00
Minneapolis Photo Materials Co., chemicals.....	298	8.80
Minneapolis Gas Light Co., gas supplies.....	303	3.25
Pendergast Fence Co., fence material.....	315	29.44
W. T. Reynolds, 30 cedar posts.....	317	4.50
Standard Oil Co., gasoline.....	318	14.59
Smalley Manufacturing Co., cutting plate, etc.....	320	5.75
St. Anthony Hardware Co., hardware.....	321	.55
A. T. Thompson & Co., rheostat, etc.....	322	110.00
The J. I. Case Implement Co., two sets burrs.....	325	4.00
W. M. Hays, travel, Rosemount.....	326	10.49
J. A. Vye, secretary, sundry disbursements.....	327	23.08
Adolph Poirier, brooms.....	328	5.00
Kemp & Burpee, manure spreader.....	329	120.00
Theo. Anderson, 155.7 bushels wheat.....	458	110.54
Brooks Bros., lumber.....	461	22.60
The J. I. Case Implement Co., two sets burrs.....	470	4.00
Forman, Ford & Co., machine oil.....	480	1.75
D. A. Gaumnitz, transportation.....	483	4.87
Annie L. Hendrickson, use of 125 acres land.....	486	775.00
John Hardy, 278.6 bushels wheat.....	487	197.80
W. G. Johnson, work on camera stand.....	489	6.00
Peter Kordell, 58.6 bushels wheat.....	490	41.60
Le Roy Plow Co., plow.....	494	11.00
John Leinen, 95.4 bushels wheat.....	495	67.73
N. M. Moore, 125 bushels wheat.....	500	82.50
W. K. Morrison & Co., hardware.....	501	3.11
Minneapolis Iron Store Co., hardware.....	502	2.05
Fred. Peterson, 76.7 bushels wheat.....	513	54.45
John A. Schlener & Co., stationery.....	515	.45
J. A. Vye, secretary, 224 bushels wheat.....	524	156.80
Frank Wilzbacher, 176 bushels wheat.....	527	124.96

	No. Voucher.	Amount.
St. Anthony Hardware Co., hardware.....	535	65.40
Bemis Bros. Bag Co., 350 yards burlap.....	643	21.88
J. I. Case Implement Co., one tire gear.....	649	45.00
Fisher Paper Box Co., 150 boxes.....	657	10.00
Fairbanks, Morse & Co., box scale, etc.....	658	30.50
W. K. Morrison & Co., hardware.....	665	1.70
Minneapolis Iron Store Co., hardware.....	670	1.00
Minneapolis Paper Co., paper.....	673	5.15
S. E. Olson Co., rubber boots.....	677	3.00
W. T. Reynolds, 12 cedar posts.....	682	5.04
St. Anthony Hardware Co., hardware.....	683	3.95
J. A. Vye, secretary, sundry disbursements.....	689	17.28
J. A. Vye, secretary, sundry disbursements.....	690	.25
Whitall, Tatum & Co., jars.....	694	13.01
Zimmerman Bros., photo supplies.....	695	4.95
The J. I. Case Implement Co., two sets burrs.....	779	4.00
A. D. Campbell, six shades.....	781	16.61
Deering Harvester Co., twine.....	782	130.26
Janney, Semple, Hill & Co., hardware.....	794	.88
Minneapolis Iron Store Co., hardware.....	799	1.20
Northwestern Fuel Co., coal.....	803	100.00
St. Anthony Hardware Co., hardware.....	810	17.55
Union Railway Storage Co., four barrels cement.....	816	9.40
Zimmerman Bros., lantern slide plates.....	823	4.48
J. A. Vye, secretary, sundry disbursements.....	824	5.54
Diamond Elevator & Milling Co., oats.....	931	98.50
Denney-Stevens Tag Co., 5,000 tags.....	932	6.25
W. M. Hays, travel.....	942	85.48
W. M. Hays, travel, Washington.....	943	139.33
A. F. Howland, oats.....	944	270.60
Janney, Semple, Hill & Co., hardware.....	947	10.04
Seth H. Kenney, 200 pounds cane seed.....	951	6.84
John Leslie Paper Co., paper.....	952	7.50
S. B. Loye & Sons, horse furnishings.....	953	28.95
Lyman-Eliel Drug Co., drugs.....	954	.80
Northern Machinery Co., pulley and shafting.....	962	6.00
W. S. Nott Co., belting.....	965	22.67
Shevlin-Carpenter Co., lumber.....	968	17.56
Standard Oil Co., gasoline.....	970	27.25
St. Anthony Hardware Co., hardware.....	971	5.75
A. T. Thompson & Co., carbons.....	975	4.00
Zimmerman Bros., photo supplies.....	982	13.83
J. A. Vye, secretary, sundry disbursements.....	983	88.78
Brooks Bros., lumber.....	1108	19.91
J. I. Case Implement Co., three sets burrs.....	1111	6.00
Eagle Printing Co., class slips.....	1116	10.00
S. B. Loye & Sons, horse furnishings.....	1128	3.95
John Leslie Paper Co., paper.....	1129	14.11
W. K. Morrison & Co., hardware.....	1135	10.60
Minneapolis Iron Store Co., hardware.....	1136	.15
Powers Mercantile Co., dry goods.....	1144	4.56
St. Anthony Furniture Co., two office tables.....	1146	2.60
John A. Schlener & Co., stationery.....	1149	1.00
Wyckoff, Seamans & Benedict, stationery.....	1156	4.20
J. A. Vye, secretary, sundry disbursements.....	1168	71.36
Brown, Treacy & Sperry Co., stationery.....	1291	3.83
Bemis Bros. Bag Co., 300 bags.....	1292	45.00
M. L. Burkhardt Co., three leather cases.....	1293	8.50
Electrical Engineering Co., glue.....	1301	.20
Forman, Ford & Co., glass.....	1302	1.62
H. Herbrandson, work on planter.....	1309	8.00
Janney, Semple, Hill & Co., hardware.....	1311	3.80
Arnold Kuhlo, drainage level.....	1314	35.00
John Leslie Paper Co., paper.....	1318	7.00
A. B. Lyman, two bushels alfalfa.....	1319	14.00
Munson Stationery Co., stationery.....	1320	1.25
Northwestern Stamp Works, stamps.....	1328	5.35
John A. Schlener & Co., stationery.....	1333	11.60
Spring Lawn Farm, seed wheat.....	1335	354.00
Wyckoff, Seamans & Benedict, stationery.....	1342	8.16
Zimmerman Bros., chemicals.....	1347	15.24
Brooks Bros., lumber.....	1517	4.00
Farmer Seed Co., seeds.....	1522	4.00
D. A. Gaumnitz, freight, etc.....	1525	26.01
W. G. Johnson, work on planters.....	1527	7.80
E. V. King & Co., 1,955 pounds hay.....	1528	7.82
Lyman-Eliel Drug Co., drugs.....	1534	.60
Minneapolis Iron Store Co., hardware.....	1536	8.46

	No. Voucher.	Amount.
Northrup, King & Co., seeds.....	1543	103.02
O. H. Peck Co., photo materials.....	1544	4.90
Smalley Manufacturing Co., hardware.....	1547	15.25
Stoddard & Allen Co., machinery.....	1548	33.03
John A. Schlener & Co., stationery.....	1549	7.40
St. Anthony Hardware, hardware.....	1550	59.47
Wyckoff, Seamans & Benedict, supplies and repairs.....	1555	3.60
Spring Lawn Farm, 29 bushels wheat.....	1556	26.50
J. A. Vye, secretary, sundry disbursements.....	1557	85.25
Brooks Bros., shavings and lath.....	1675	4.00
F. Barteldes & Co., four bushels beans.....	1679	10.00
Brown, Treacy & Sperry Co., drawing paper.....	1680	4.00
Eimer & Amend, chemicals.....	1685	12.23
Freeman & Lanpher, mill feed.....	1688	33.10
Fisher Paper Box Co., 100 boxes.....	1689	7.00
D. A. Gaumnitz, sundry disbursements.....	1690	15.85
Iowa Seed Co., three bushels peas.....	1693	10.20
Janney, Semple, Hill & Co., 100 pounds galvanized wire.....	1695	3.25
Seth H. Kenney, 200 pounds amber cane seed.....	1696	6.84
The John Leslie Paper Co., paper.....	1700	1.55
Northrup, King & Co., seeds.....	1704	32.50
Powers Mercantile Co., dry goods.....	1712	8.50
The Specialty Manufacturing Co., 31 yards duck, and labor.....	1714	5.36
O. C. Thompson, 15 bushels seed corn.....	1719	22.50
Zimmerman Bros., chemicals.....	1727	19.88
J. A. Vye, secretary, sundry disbursements.....	1728	20.79
John A. Schlener & Co., stationery.....	1729	.80
Andrew Boss, one horse.....	1799	175.00
D. A. Gaumnitz, sundry disbursements.....	1805	4.40
The John Leslie Paper Co., paper.....	1806	1.00
Lyman-Eliel Drug Co., drugs.....	1808	3.18
Northrup, King & Co., seeds.....	1812	6.35
Olson & Co., hardware.....	1816	8.36
St. Anthony Hardware Co., hardware.....	1817	21.33
John A. Schlener & Co., stationery.....	1819	6.55
E. H. Sargent & Co., burners.....	1820	5.81
J. A. Vye, secretary, sundry disbursements.....	1827	14.54
Williams & Sons, 15,000 labels.....	1825	6.75
Brooks Bros., lumber.....	1852	11.21
Deering Harvester Co., 50 pounds twine.....	1858	6.50
Fisher Paper Box Co., 300 cards.....	1861	5.25
D. A. Gaumnitz, freights.....	1863	5.12
R. R. Howell & Co., castings.....	1864	3.85
The John Leslie Paper Co., paper.....	1870	12.41
S. B. Loye & Sons, horse furnishings.....	1871	2.30
W. K. Morrison & Co., hardware.....	1872	.67
Minneapolis Iron Store Co., hardware.....	1874	4.00
Northrup, King & Co., 50 pounds rape seed.....	1878	3.16
John A. Schlener & Co., stationery.....	1884	.70
St. Anthony Hardware Co., hardware.....	1885	10.95
John Thompson, sundry disbursements.....	1887	20.72
Zimmerman Bros., photo supplies.....	1889	1.15
H. H. Mowry, travel.....	1893	7.96
Wyckoff, Seamans & Benedict, ink and stencils.....	1899	3.50
J. A. Vye, secretary, sundry disbursements.....	1901	20.93
Total		\$15,605.66

Division of Chemistry.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Harry Snyder, professor.....	...	\$999.96
Isabel D. Parker, instructor.....	...	335.00
William Boss, engineer.....	...	50.22
Josephine Craig, assistant.....	...	414.00
Laborers .....	...	390.70
John A. Schlener & Co., stationery.....	142	.30
Standard Oil Co., gasoline.....	158	34.44
J. A. Vye, secretary, sundry disbursements.....	165	10.92
The John Leslie Paper Co., paper.....	292	2.85
J. A. Vye, secretary, sundry disbursements.....	327	10.26
Eimer & Amend, chemicals.....	476	190.91

	No. Voucher.	Amount.
Noyes Bros. & Cutler, drugs.....	529	13.67
St. Anthony Hardware Co., hardware.....	535	12.40
Bramblett & Beygeh, two half-tones, plants.....	645	3.00
Bausch & Lomb Optical Co., physical apparatus.....	646	11.95
Eimer & Amend, physical apparatus.....	653	5.61
Northwestern Fuel Co., coal.....	676	350.00
St. Anthony Hardware Co., hardware.....	683	3.90
J. A. Vye, secretary, sundry disbursements.....	689	18.35
J. A. Vye, secretary, sundry disbursements.....	690	8.30
Eimer & Amend, physical apparatus.....	784	8.90
St. Anthony Hardware Co., hardware.....	810	1.25
J. A. Vye, secretary, sundry disbursements.....	824	3.50
J. A. Vye, secretary, sundry disbursements.....	983	2.96
Bausch & Lomb Optical Co., repairs.....	1106	8.00
Noyes Bros. & Cutler, drugs.....	1139	2.09
Standard Oil Co., gasoline.....	1148	31.70
J. A. Vye, secretary, sundry disbursements.....	1168	1.35
Bureau of Engineering, engraving.....	1295	13.60
The Gashen Milling Co., flour, etc.....	1305	5.51
Noyes Bros. & Cutler, drugs.....	1325	7.83
John A. Schlener & Co., stationery.....	1333	1.75
Eimer & Amend, physical apparatus.....	1520	19.15
J. A. Vye, secretary, sundry disbursements.....	1557	23.02
Noyes Bros. & Cutler, drugs.....	1706	10.48
S. S. White Dental Manufacturing Co., cylinder of 100 gallons oxygen	1725	5.00
J. A. Vye, secretary, sundry disbursements.....	1728	7.99
The John Leslie Paper Co., paper.....	1806	1.70
St. Anthony Hardware Co., hardware.....	1817	1.35
J. A. Vye, secretary, sundry disbursements.....	1827	3.33
Brooks Bros., lumber.....	1852	10.13
S. B. Loye & Sons, horse furnishings.....	1871	1.25
Noyes Bros. & Cutler, drugs.....	1875	3.76
Standard Oil Co., gasoline.....	1883	31.36
St. Anthony Hardware Co., hardware.....	1885	6.75
A. J. Gaumnitz, work on digestion experiments.....	1891	22.50
Eimer & Amend, apparatus.....	1892	3.36
C. W. Gray Printing Co., printing.....	1898	1.38
J. A. Vye, secretary, sundry disbursements.....	1901	5.46
Total		\$3,113.15

Division of Entomology.**CURRENT EXPENSE.**

	No. Voucher.	Amount.
Frederick L. Washburn, professor.....	...	\$200.00
Laborers .....	...	8.08
J. A. Vye, secretary, sundry disbursements.....	690	.75
Minneapolis Office & School Furniture Co., desk and chair.....	1701	32.50
New England Furniture & Carpet Co., revolving book case.....	1707	12.00
J. A. Vye, secretary, sundry disbursements.....	1827	1.67
J. A. Vye, secretary, sundry disbursements.....	1901	3.92
Total		\$258.92

Division of Horticulture.**CURRENT EXPENSE.**

	No. Voucher.	Amount.
Samuel B. Green, professor.....	...	\$1,200.00
Laborers .....	...	1,834.40
Students' payrolls .....	...	51.03
Bemis Bros. Bag Co., burlap.....	113	2.25
Minneapolis Photo Materials Co., ortho and seeds.....	130	6.61
John A. Schlener & Co. stationery.....	143	1.20
R. S. Mackintosh, travel.....	151	6.14
J. A. Vye, secretary, sundry disbursements.....	165	67.87

	No. Voucher.	Amount.
Eagle Printing Co., printing.....	276	7.50
W. G. Johnson, carpenter work.....	286	3.20
St. Anthony Hardware, hardware.....	321	.20
J. A. Vye, secretary, sundry disbursements.....	327	10.92
Bramblett & Beygeh, half-tone views.....	460	55.37
C. S. Harrison, plants.....	485	8.00
Northwestern Fuel Co., coal.....	504	200.00
Noyes Bros. & Cutler, drugs.....	529	2.76
Whitall, Tatum & Co., mortars, pestles and jars.....	533	42.89
St. Anthony Hardware Co., hardware.....	535	.75
Bramblett & Beygeh, etchings and half-tones.....	645	10.10
E. Estenson, seven pounds huckleberry seed.....	654	5.00
W. K. Morrison & Co., hardware.....	665	2.76
Northwestern Fuel Co., coal.....	676	100.00
William Oxford, fruit trees.....	678	5.00
St. Anthony Hardware Co., hardware.....	683	5.50
J. A. Vye, secretary, sundry disbursements.....	689	31.37
J. A. Vye, secretary, sundry disbursements.....	690	5.40
Zimmerman Bros., photo supplies.....	695	.25
St. Anthony Hardware Co., hardware.....	810	48.00
John A. Schlener & Co., stationery.....	813	.50
R. B. Thompson, lumber.....	817	2.88
J. A. Vye, secretary, sundry disbursements.....	824	1.71
J. A. Vye, secretary, sundry disbursements.....	983	3.80
W. K. Morrison & Co., hardware.....	1135	2.50
J. A. Vye, secretary, sundry disbursements.....	1168	2.10
Electrical Engineering Co., electrical supplies.....	1301	8.60
Heywood Manufacturing Co., envelopes.....	1308	5.25
Janney, Semple, Hill & Co., hardware.....	1311	.60
John Leslie Paper Co., paper.....	1318	2.86
J. N. Sayer, two storm blankets.....	1334	8.00
Twin City Telephone Co., line rental.....	1339	3.00
Twin City Telephone Co., line rental.....	1551	3.00
J. A. Vye, secretary, sundry disbursements.....	1557	25.00
Ellwanger & Barry, plants.....	1687	12.75
Jewell Nursery Co., 2,000 apple roots.....	1694	10.50
Janney, Semple, Hill & Co., garden barrow.....	1695	3.25
Swift & Co., one ton tankage.....	1715	26.00
Twin City Telephone Co., rental.....	1721	3.00
A. Phelps Wyman, 277 botanical specimens.....	1723	14.62
J. A. Vye, secretary, sundry disbursements.....	1728	25.60
Farwell, Ozmun, Kirk & Co., hardware.....	1803	14.19
Olson & Co., hardware.....	1816	3.00
Twin City Telephone Co., rental.....	1822	3.00
Zimmerman Bros., photo supplies.....	1826	9.12
J. A. Vye, secretary, sundry disbursements.....	1827	4.52
Noyes Bros. & Cutler, drugs.....	1875	1.50
St. Anthony Hardware Co., hardware.....	1885	4.08
Zimmerman Bros., photo supplies.....	1889	1.25
Coffin's Box & Lumber Co., crates.....	1896	11.70
J. A. Vye, secretary, sundry disbursements.....	1901	32.03
Total		\$3,964.38

Division of Animal Husbandry.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Thomas Shaw, professor.....	...	\$800.00
Laborers .....	...	3,969.98
Students' payrolls .....	...	363.03
Brooks Bros., lumber.....	111	23.06
W. W. Brimhall, 5,480 pounds hay.....	114	27.40
Freeman & Lanpher, mill feed.....	119	81.00
Janney, Semple, Hill & Co., hardware.....	123	15.74
E. V. King & Co., corn.....	124	91.47
Wm. S. Dixon, Shropshire ram.....	148	45.00
Northrup, King & Co., seeds.....	149	9.95
Dietrick, Weilage, five pigs.....	152	33.25
Central Avenue Feed Co., hay and straw.....	157	21.83
Theo. Anderson, 1,840 pounds hay.....	159	11.04
Israel Groff, two-year-old steer.....	161	325.00
J. A. Vye, secretary, sundry disbursements.....	165	17.64

	No.	Voucher.	Amount
Brooks Bros., posts.....	268		9.80
W. H. Brimhall, hay.....	271		43.01
I. J. Flaten & Co., hay.....	277		114.29
E. V. King & Co., corn and oats.....	289		40.38
The John Leslie Paper Co., paper.....	291		2.85
J. C. Mills, ewes and rams.....	296		435.00
Midland Linseed Oil Co., oil meal.....	301		62.50
Pierce Bros., oats.....	313		131.09
Pierce Bros., corn.....	314		196.91
St. Anthony Hardware Co., hardware.....	321		14.28
Frank Wilzbacher, 6,445 pounds hay.....	323		38.67
J. A. Vye, secretary, sundry disbursements.....	327		89.85
Freeman & Lanpher, mill feed.....	331		128.75
Allen Bros., 150 pounds sugar.....	456		7.73
W. H. Brimhall, 14,595 pounds hay.....	462		80.27
Diamond Elevator & Milling Co., barley and oats.....	473		37.31
Freeman & Lanpher, mill feed.....	478		98.50
Israel Groff, U. S. duties and travel.....	482		22.50
W. K. Morrison & Co., hardware.....	501		4.00
Northern Linseed Oil Co., 200 pounds ground flax seed.....	503		8.00
Midland Linseed Oil Co., oil meal.....	506		34.50
Plumbing & Steamfitting Supplies Co., 50 feet garden hose.....	511		6.00
Anthony Perry, 50 bushels charcoal.....	512		6.50
Pierce Bros., 620 bushels barley.....	514		359.60
Noyes Bros. & Cutler, drugs.....	529		8.40
Winston, Harper, Fisher & Co., six barrels salt.....	530		6.00
St. Anthony Hardware Co., hardware.....	535		21.60
W. H. Brimhall, 7,010 pounds hay.....	647		38.56
J. R. Clark Co., 101 boxes.....	650		15.15
Freeman & Lanpher, mill feed.....	659		77.00
E. V. King & Co., 50 bushels corn.....	662		30.00
Midland Linseed Oil Co., oil meal.....	664		59.00
S. E. Olson Co., 80 yards ticking.....	677		8.80
Pierce Bros., 693.42 bushels corn.....	680		385.03
W. C. Palmer, sundry disbursements.....	681		5.20
St. Anthony Hardware Co., hardware.....	683		16.78
J. A. Vye, secretary, sundry disbursements.....	689		61.93
J. A. Vye, secretary, sundry disbursements.....	690		2.67
Wyckoff, Seamans & Benedict, typewriter supplies.....	693		8.55
Zimmerman Bros., photo.....	695		5.12
Dan. Goodhue 476.3 bushels oats.....	697		162.44
P. W. Artz, Hampshire ewe.....	773		35.00
H. F. Brown, Shorthorn bull.....	777		500.00
Diamond Elevator & Milling Co., corn.....	783		105.25
Freeman & Lanpher, bran.....	789		51.00
John Jackson & Son, Southdown ram.....	793		40.00
E. V. King & Co., corn.....	795		110.15
Northwestern Fuel Co., coal.....	803	.....
W. W. Stivers, printing.....	811		13.97
Thomas Teal & Son, "Berkshire" male.....	815		40.00
Frank Wilzbacher, 15,290 pounds hay.....	820		91.74
Wyckoff, Seamans & Benedict, stencil and ink.....	821		2.75
Winston, Harper, Fisher & Co., four barrels salt.....	822		4.00
J. A. Vye, secretary, sundry disbursements.....	824		49.67
Wm. C. Bailey, white wood.....	928		3.76
Freeman & Lanpher, mill feed.....	937		79.75
J. M. Gardhouse, yearling ewe.....	939		30.00
A. F. Howland, oats.....	944		180.15
E. V. King & Co., 19,970 pounds hay.....	948		84.87
S. B. Loye & Sons, horse furnishings.....	953		7.50
Northrop, King & Co., seeds.....	961		2.05
Noyes Bros. & Cutler, drugs.....	963		.50
W. W. Stivers, apparatus.....	967		3.60
St. Anthony Hardware Co., hardware.....	971		2.80
David M. Tyffe, calf.....	976		29.70
Frank Wilzbacher, 21,155 pounds hay.....	980		126.93
J. A. Vye, secretary, sundry disbursements.....	983		11.25
Theo. Anderson, 7,860 pounds hay.....	1103		47.16
F. Brinkerhoff, two ewes.....	1105		20.00
Max Chapman, one ewe.....	1112		50.00
Freeman & Lanpher, mill feed.....	1117		96.75
John Leslie Paper Co., paper.....	1129		1.43
Northwestern Fuel Co., coal.....	1138		100.00
Pierce Bros., corn (half carload).....	1143		291.55
John A. Schlener & Co., stationery.....	1149		.50
A. J. Lasby, one pig.....	1150		6.50
F. H. Whitney, one sow.....	1157		40.00
H. P. West, three swine.....	1162		120.00

	No. Voucher.	Amount.
J. A. Vye, secretary, sundry disbursements.....	1168	6.06
John W. Aiton, four sows.....	1287	80.00
C. E. Clarke, one sow.....	1297	25.00
C. H. Dana, 300 sheep labels.....	1298	6.00
Freeman & Lanpher, bran.....	1303	24.90
G. W. Grant, two sows.....	1304	36.00
A. F. Howland, oats.....	1310	159.68
E. V. King & Co., 13,730 pounds hay.....	1313	44.62
F. H. Lindig, 6,090 pounds hay.....	1315	36.54
Noyes Bros. & Cutler, drugs.....	1325	1.50
Northern Linseed Oil Co., one ton oil meal.....	1326	25.00
Robert Spencer, services and disbursements.....	1337	10.10
Winston, Harper, Fisher & Co., six barrels salt.....	1343	6.00
Webb Publishing Co., reading notice.....	1344	10.00
Frank Wilzbacher, 15 tons straw.....	1345	45.00
J. A. Vye, secretary, sundry disbursements.....	1348	1,201.83
Freeman & Lanpher, mill feed.....	1523	55.99
A. F. Howland, oats.....	1526	198.56
Theo. Keller, 2 tons straw.....	1530	8.00
W. F. Lindig, 1½ tons straw.....	1531	4.50
Adam Lindig, 5,410 pounds hay.....	1533	32.46
A. E. Robertson, 4 tons straw.....	1545	14.00
Aug. Richter, 9½ tons straw.....	1546	33.25
J. A. Vye, secretary, sundry disbursements.....	1557	33.01
Theo. Anderson, hay.....	1673	23.28
Andrew Boss, 2 cows and expenses.....	1677	110.40
Andrew Boss, 10 steers and expenses.....	1678	387.46
Eagle Printing Co., 2,000 daily reports.....	1686	5.00
John Hardy, 1,720 pounds hay.....	1692	11.18
Peter Kordel, 4.8 tons straw.....	1698	14.40
M. P. & S. E. Lautz, 1 Angus bull.....	1699	360.00
Northrup, King & Co., seeds.....	1704	25.26
O'Brien Bros., 2 shorthorn cows.....	1711	115.00
James Tyson & Co., 1 Angus cow.....	1720	305.00
Union Railway Storage Co., plaster.....	1722	.85
J. A. Vye, secretary, sundry disbursements.....	1728	31.85
John A. Schlener & Co., stationery.....	1729	6.30
Andrew Boss, travel, Chicago.....	1799	7.75
Freeman & Lanpher, mill feed.....	1804	38.95
Northrup, King & Co., seeds.....	1812	1.79
Northern Linseed Oil Co., 2,000 pounds oil meal.....	1813	24.00
St. Anthony Hardware Co., hardware.....	1817	.40
J. A. Vye, secretary, sundry disbursements.....	1827	61.25
Borden, Schlick & Co., 2 milk scales.....	1853	9.00
Andrew Boss, sundry disbursements.....	1854	4.25
Bureau of Engraving, printing.....	1855	15.90
Diamond Elevator & Milling Co., 50 bushels corn.....	1857	33.75
Freeman & Lanpher, mill feed.....	1860	52.60
Forman, Ford & Co., painters' supplies.....	1862	18.34
B. S. Hoyt, 12,150 pounds hay.....	1866	51.64
Jas. J. Hill, 16 pigs.....	1867	117.02
E. V. King & Co., straw.....	1869	31.93
John A. Schlener & Co., stationery.....	1884	4.25
St. Anthony Hardware Co., hardware.....	1885	12.00
Zimmerman Bros., photo supplies.....	1889	2.47
Zenner Disinfectant Co., disinfectants.....	1890	3.75
American Linseed Oil Co., 1 ton oil meal.....	1894	26.00
J. A. Vye, secretary, sundry disbursements.....	1901	9.00
Total		\$15,120.21

Division of Dairy Husbandry.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Theo. L. Haecker, professor.....	...	\$1,200.00

Division of Veterinary.

CURRENT EXPENSE.

	No. Voucher.	Amount.
Myron H. Reynolds, professor.....	...	\$1,200.00
Teamster and laborers.....	...	289.74

	No. Voucher.	Amount.
Noyes Bros. & Cutler, drugs.....	136	12.50
Truax Bros., oats.....	145	13.64
Theo. Anderson, 960 pounds hay.....	150	4.80
Theo. Anderson, 630 pounds hay.....	154	3.15
J. A. Vye, secretary, sundry disbursements.....	165	1.05
Noyes Bros. & Cutler, drugs.....	304	23.21
M. H. Reynolds, sundry disbursements.....	316	1.98
Wyckoff, Seamans & Benedict, stationery.....	324	1.88
J. A. Vye, secretary, sundry disbursements.....	327	1.48
Theo. Anderson, hay.....	457	10.76
Theo. Anderson, 860 pounds hay.....	459	5.16
Truax Bros., oats.....	522	12.55
Noyes Bros. & Cutler, drugs.....	529	1.38
St. Anthony Hardware Co., hardware.....	535	1.10
Theo. Anderson, hay.....	642	11.49
J. A. Vye, secretary, sundry disbursements.....	689	3.42
J. A. Vye, secretary, sundry disbursements.....	690	1.25
Wyckoff, Seamans & Benedict, typewriter supplies.....	693	1.50
Brooks Bros., shavings.....	776	1.25
Noyes Bros. & Cutler, drugs.....	807	9.47
St. Anthony Hardware Co., hardware.....	810	1.12
Theo. Anderson, hay.....	924	11.82
Theo. Anderson, 955 pounds hay.....	925	5.73
Northwestern Fuel Co., one ton coal.....	960	4.13
Noyes Bros. & Cutler, drugs.....	963	17.16
St. Anthony Hardware Co., hardware.....	971	8.18
J. A. Vye, secretary, sundry disbursements.....	983	2.44
F. O. Boyd & Co., alcohol.....	1109	11.38
Noyes Bros. & Cutler, drugs.....	1139	27.11
St. Anthony Furniture Co., tables.....	1146	11.00
Twin City Telephone Co., rental.....	1153	1.50
J. A. Vye, secretary, sundry disbursements.....	1168	1.73
Noyes Bros. & Cutler, drugs.....	1325	23.50
New England Furniture & Carpet Co., brush mats.....	1327	6.50
St. Anthony Hardware Co., hardware.....	1331	1.00
Twin City Telephone Co., line rental.....	1339	1.50
Zimmerman Bros., chemicals.....	1347	1.91
Theo. Anderson, 950 pounds hay.....	1516	5.70
A. F. Howland, oats.....	1526	42.28
New England Furniture & Carpet Co., book holder (one-half)...	1542	2.13
John A. Schlener & Co., stationery.....	1549	.90
Twin City Telephone Co., line rental.....	1551	1.50
Truax Bros., oats.....	1552	14.35
J. A. Vye, secretary, sundry disbursements.....	1557	3.02
Theo. Anderson, hay.....	1673	11.70
Theo. Anderson, 1,990 pounds hay.....	1674	13.44
Andrew Boss, one cow.....	1676	27.50
Twin City Telephone Co., rental.....	1721	1.50
J. A. Vye, secretary, sundry disbursements.....	1728	2.93
The John Leslie Paper Co., paper.....	1806	1.43
St. Anthony Hardware Co., hardware.....	1817	1.00
John A. Schlener & Co., stationery.....	1819	.60
Schuneman & Evans, dry goods.....	1821	4.72
Twin City Telephone Co., rental.....	1822	1.50
Zimmerman Bros., photo supplies.....	1826	5.32
J. A. Vye, secretary, sundry disbursements.....	1827	5.08
Hoyt Plant & Seed Co., 2,650 pounds hay.....	1865	15.90
E. V. King & Co., straw.....	1869	10.00
W. K. Morrison & Co., hardware.....	1872	18.17
St. Anthony Hardware Co., hardware.....	1885	.70
C. W. Gray Printing Co., printing.....	1898	1.10
J. A. Vye, secretary, sundry disbursements.....	1901	2.55
Pioneer Press Co., printing.....	1880	7.50
Total		\$1,952.99

EXPENDITURE OF SPECIAL APPROPRIATIONS AT THE AGRICULTURAL SCHOOL.

VETERINARY AND LIVE STOCK BUILDING.

Appropriation \$25,000

The veterinary and live stock building has been completed and equipped within the appropriation of \$25,000.

There were five bids for the erection of the building, of which Mr. C. N. Lovene's was the lowest, and the contract was let to him for \$11,630.

There were three bids on the construction of the tunnel to the veterinary hospital. Mr. Lovene's bid in this case was also the lowest, and the contract was let to him for \$2,244.

Five contractors bid on the heating of the building, and the job was let to C. N. Wentworth & Co., whose bid of \$1,090 was the lowest, amount of radiation considered.

The plumbing contract was let to Holt & Dahlby, the lowest of five bidders, for \$228 plus \$50 for sewer.

Following is a list of expenditures:

C. N. Lovene, contract for building	\$11,630.00
C. N. Lovene, contract for tunnel	2,244.00
C. N. Lovene, contract for stalls and equipment.....	2,564.00
C. N. Lovene, labor and material for shelving in office and pharmacy, extra wainscoting and windows, museum cases and tables, floor in attic, skylight, grading, etc.....	1,303.63
Advertising for bids.....	8.40
Heating, including part payment for boiler.....	1,090.00
Plumbing contract and extras.....	437.39
Steam fitting, labor and material.....	795.33
Electric wiring.....	265.00
Extra carpenter work.....	42.20
Lumber	20.15
Apparatus	498.85
Architect's fees.....	650.00
Gas plant.....	318.00
Signs	40.00
Grading, planting and seeding.....	745.07
Furniture	641.18
Sidewalks	181.04
Hardware	69.79
Balance for microscopes and other scientific apparatus for which requisitions have been granted.....	1,445.97
Total	\$25,000.00

CHEMICAL LABORATORY.

Appropriation \$25,000

The contract for the laboratory for agricultural chemistry was let to Mr. C. N. Lovene, the lowest bidder, for \$17,932. An additional contract was also made for Kasota stone in the basement amounting to \$280, making his total contract \$18,212.

The steam heating contract was let to Hurley & Company, of St. Paul, for \$1,348. The rough plumbing was also let to the same firm, for \$641, making their total contract, \$1,989.

The following is a statement of the expenditures:

Building	\$18,212.00
Heating and rough plumbing.....	1,989.00
Desks and furniture.....	1,999.00
Shades	70.85
Ventilating system and power.....	333.75
Chairs for lecture room.....	66.25
Plumbing, gas, water, etc.....	824.00
Electric light and wiring.....	431.00
Total	<u>\$23,925.85</u>

ESTIMATED EXPENSES.

(In no case will items exceed amount specified.)

Architect's fees.....	\$750.00	
Installing ventilating system.....	90.00	
Repairs to old laboratory.....	75.00	
Grading about building.....	75.00	
Making kitchen chairs suitable for lecture room.....	60.00	
	<u>1,050.00</u>	
Total		<u>\$24,975.85</u>
Original appropriation.....	\$25,000.00	
Expenses	24,975.85	
Probable balance.....		<u>\$24.15</u>

IMPROVEMENTS AND EQUIPMENT OF DAIRY HALL.

Appropriation \$3,000

Improvements and equipment to the Dairy Hall have been added at a cost of \$3,000.

The following is a list of expenditures:

Macninery and utensils.....	\$1,453.20
Lumber	173.57
Carpenter work.....	283.36
Steam fitting.....	267.11
Paints and glass.....	64.93
Hardware	146.72
Furniture	30.50
Labor	38.87
Cement floor.....	252.15
Total	\$2,710.41

The balance of the appropriation, \$289.59, is to be used for sidewalks about the building, and some other items for which requisitions have been granted.

ADDITION TO BLACKSMITH SHOP.

Appropriation \$3,000

At a meeting of the Building Committee of the Board of Regents of the University, held at the office of the architect, 607 Lumber Exchange, Aug. 5, 1901, proposals were received for the erection of addition to blacksmith shop, as follows:

C. N. Lovene, plan No. 1.....	\$2,296.00
C. N. Lovene, plan No. 2.....	1,447.00
August Cederstrand, plan No. 1.....	2,600.00
Contract awarded to C. N. Lovene, \$1,447, under plan No. 2.	
Contractor's bid.....	\$1,447.00
Necessary changes.....	71.60
Architect's fees.....	52.50
Sewer pipe for forges.....	76.00
Timber for anvil blocks and seats.....	60.32
Anvils (20).....	117.46
Creosote for anvil blocks.....	10.00
Blower, exhaust fan, etc.....	202.50
Motor	330.00
Wiring, etc., for motor.....	33.34
Hoods for forges.....	46.00

Piping for forges.....	362.75
Leather belting.....	14.99
Rope for belting, shovels, coal hods, etc.....	30.67
Tuyere irons, vises and drill press.....	116.04
Barrels for stack tubs.....	9.00
Oil and paint for roof.....	16.65
One set twist drills.....	3.18
Total	<u>\$3,000.00</u>

GIRLS' DORMITORY.

Appropriation \$12,000

An addition in the form of a wing has been built to the girls' dormitory and equipped within the appropriation of \$12,000.

There were three bids offered of which Mr. C. N. Lovene's was the lowest, namely, \$8,850.

The following is a statement of the expenditures:

C. N. Lovene, contract for building.....	\$8,850.00
Heating contract, \$590; boiler, \$720.....	1,310.00
Electric wiring.....	275.77
Architect's fees.....	350.00
Furniture	900.46
Decorating	50.00
Hardware	13.57
Advertising	5.40
C. N. Lovene, extra labor and material.....	68.00
Balance	176.80
Total	<u>\$12,000.00</u>

Requisitions have been granted for a part of this balance.

MEAT HOUSE.

Appropriation \$7,500

The new meat house has been completed and equipped within the appropriation of \$7,500. There were three bids for the erection of the building, of which that of C. N. Lovene was the lowest, \$4,666.

The following is a list of the expenditures:

C. N. Lovene, contract for building	\$4,666.00
C. N. Lovene, contract for extra insulation and for foundation for compressor	322.50
A. H. Barber & Co., Chicago, refrigerating machinery.....	1,476.16

Holt & Dahlby, St. Paul, plumbing.....	110.00
Minneapolis Electrical Construction Co., electric wiring.....	106.00
Northern Electric Co., motor.....	252.00
Architect's fees.....	200.00
Heating, put in by regular help.....	367.34
Total	<u>\$7,500.00</u>

BUILDING FOR SWINE BREEDING.

Appropriation \$3,000

In the spring of 1902, a building, composed of two wings 28x60 ft., and joined by a main part 28x42 ft., was planned. Owing to the advance in material and labor it was found impossible to get bids low enough to permit of the erection of the entire building within the appropriation. One wing was consequently dropped and a contract for the remaining portion awarded to P. Benson of Minneapolis for a brick walled building with cement floors and shingled roof. The contract price was \$2,300. In addition to this amount there has been expended to date, \$22.63 for water pipe, \$79.80 for scales, \$80.50 for architect's fees, and \$4.86 for sewer pipe. The balance of \$512.21 will be needed for electric lights, paving, and fencing the adjacent yards and in grading about the building. It is estimated also that there will be sufficient money to conduct heat to the building from the veterinary hospital, and for troughs and other fixtures in the feed rooms.

SUB-STATIONS.

GRAND RAPIDS STATION.

A very complete basement barn has been constructed out of the appropriation of \$1,200 for that purpose.

The account for maintenance stands as follows:

Balance August 1, 1900.....	\$70.56
Appropriation for year ending July 31, 1901.....	3,250.00
Cash receipts.....	967.14
Total	<u>\$4,287.70</u>
To expenses paid.....	4,269.21
Balance for year ending July 31, 1901.....	\$18.49
Appropriation for year ending July 31, 1902.....	4,000.00
Cash receipts.....	1,562.27
Total	<u>\$5,580.76</u>

	Dr.
By expense.....	\$4,939.50
Balance cancelled by state auditor.....	18.49
Balance	622.77
Total	\$5,580.76

CROOKSTON STATION.

An appropriation was made of \$6,500, available in the year ending July 31, 1902, for constructing a barn for the care of live stock. From this appropriation \$863.79 has been expended in building an addition to the original barn. The balance of \$5,636.62 remains unexpended for the reason that we were not able, on account of the high prices of material and scarcity of labor, to construct the barn as planned within the appropriation. The plans will be revised and the barn constructed in the spring of 1903. An appropriation of \$2,500 was made for the purchase of improved live stock. Only \$35 has been expended for the reason that it was deemed best to wait until the barn was constructed.

Of the appropriation of \$1,000 for fencing and drainage, \$882.02 has been expended. The balance will be required to complete the fence.

The current expense account stands as follows:

Annual appropriation for year ending July 31, 1901.....	\$5,250.00
Cash receipts from farm.....	880.83
Total	\$6,130.83
To expenses paid.....	5,900.58
Balance from the year ending July 31, 1901.....	\$230.25
By appropriation for the year ending July 31, 1902.....	6,000.00
Cash receipts.....	1,147.94
Total	\$7,378.19
	Dr.
To expenses paid.....	\$7,377.49
Balance cancelled by state auditor.....	.70
Total	\$7,378.19

A continuance of the present appropriations for maintenance, i. e, \$4,000 per year for the Grand Rapids station and \$6,000 per year for the Crookston station, will probably be adequate.

AGRICULTURE IN THE RURAL SCHOOLS.

The Board of Regents placed in the hands of Dean Liggett of the Department of Agriculture the work of devising and carrying out a plan for the profitable expenditure of the appropriation of \$4,000 made by the 123rd subdivision of Sec. 2 of Ch. 381 of the Laws of 1901. A bulletin is now in the hands of the printer, prepared under the superintendence of Professor Hays, who was placed in charge, assisted by Mr. F. J. Wajta, B. Agr. Wisconsin University, and Professor William Robertson. It contains 230 exercises prepared by the editors and the faculty on topics of general interest and utility. It will be distributed to all the schools, and we venture to predict will be found interesting, instructive and useful. The preparation, printing and distribution of this book will about exhaust the appropriation.

EXPENDITURE OF SPECIAL APPROPRIATIONS AT THE UNIVERSITY.

Rearrangement of chemical building.....	\$20,000.00
Enlargement of mechanic arts building.....	20,000.00
Total	\$40,000.00

Appropriated at the session of 1899, available in fiscal year ending July 31, 1901.

After careful inspection of the plans and specifications it became apparent that the purpose of the enlargement of the Mechanic Arts Building would be more economically and better accomplished by putting up detached shops. Bids were first received for this improvement and the rearrangement of the chemical building separately, and were all rejected because it became apparent that a contract for both could be let cheaper on account of the opportunity thus offered, the contractor to use the old material in the one in the construction of the other. Accordingly the improvements were advertised together and the contract let to F. G. McMillan for \$29,846.

EXPENDITURES.

Building contract and extras.....	\$31,388.85
Plumbing	2,485.65
Heating	1,098.00
Equipment	1,943.55
Architect's fees.....	1,330.00
Grading	500.00
Electric wiring.....	271.02
Miscellaneous items.....	982.93
Total	\$40,000.00

ERECTION AND EQUIPMENT OF BUILDING FOR DEPARTMENT OF ENGINEERING AND MECHANIC ARTS.

Appropriation \$60,000.00

This appropriation was expended according to its plan and purpose in the erection of a front part to the shops for mechanical engineering built under the appropriation of 1899, and an adjacent building for the electrical engineering department. The contract for the building was let to R. McMillan & Co., the lowest of six bidders, at \$26,731. Extras brought this amount up to \$27,324.76.

EXPENDITURES.

Building	\$27,324.76
Equipment	18,241.83
Plumbing and heating.....	4,789.39
Miscellaneous material and labor.....	2,100.21
Chimney	1,550.00
Boilers	1,706.86
Electrical wiring.....	493.22
Architect's fees.....	1,120.00
Total	<u>\$57,326.27</u>
Balance	\$2,673.73

This leaves a balance of \$2,673.73 for which requisitions have been granted and are now outstanding.

PHYSICS BUILDING.

Appropriation at session of 1899.....	\$25,000.00
Appropriation at session of 1901.....	50,000.00
Total	<u>\$75,000.00</u>

The contract for construction was let to F. G. McMillan, the lowest of eight bidders, at \$47,591; the plumbing to Hoy & Co., for \$2,275; the heating plant to Tunstead Heating Co., for \$3,001; the electric light system to The Electric & Construction Co., for \$1,771.

EXPENDITURES.

Building	\$42,592.50
Tunnel to the building for pipes.....	3,185.56
Heating	3,001.00
Architect's fees.....	1,570.40
Plumbing	2,275.00
Electric light system.....	1,771.00
Equipment	724.25
Grading and walks.....	280.04
Miscellaneous material.....	165.24
Total	<u>\$55,564.99</u>
Balance	\$19,435.01

The building is substantially completed. The main part of the equipment is yet to be provided, and will require the balance of the appropriation.

GENERAL LIBRARY.

Balance August 1, 1900.....		\$1,175.84
Appropriation for 1900-1901.....		7,000.00
Disbursements for 1900-1901.....	\$6,673.28	
Credit balance.....	1,502.56	
Total	<u>\$8,175.84</u>	<u>\$8,175.84</u>
Balance August 1, 1901.....		\$1,502.56
Appropriation		7,500.00
Disbursements, 1901-1902.....	\$7,583.52	
Cancelled by state auditor.....	279.33	
Balance August 1, 1902.....	1,139.71	
Total	<u>\$9,002.56</u>	<u>\$9,002.56</u>
Credit balance August 1, 1902.....		<u>\$1,139.71</u>

SCHOOL OF MINES—SUPPORT.

Appropriation, August 1, 1900.....		\$5,000.00
Appropriation, August 1, 1901.....		5,000.00
Disbursements, 1900-1901.....	\$10,000.00	
Total	<u>\$10,000.00</u>	<u>\$10,000.00</u>

REPAIRS.

Appropriation for 1900-1901.....		\$5,000.00
Disbursements, 1900-1901.....	\$4,996.60	
Balance, 1900-1901.....	3.40	
Total	<u>\$5,000.00</u>	<u>\$5,000.00</u>

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Balance August 1, 1901.....		\$3.40
Appropriation for 1901-1902.....		8,000.00
Disbursements, 1901-1902.....	\$7,366.27	
Cancelled by auditor.....	3.40	
Balance	633.73	
Total	<u>\$8,003.40</u>	<u>\$8,003.40</u>
Credit balance August 1, 1902.....		<u>\$633.73</u>

PRINTING.

Appropriation for 1901-1902.....		\$2,000.00
Disbursements, 1901-1902.....	\$1,030.00	
Balance August 1, 1902.....	970.00	
Total	<u>\$2,000.00</u>	<u>\$2,000.00</u>
Balance August 1, 1902.....		<u>\$970.00</u>

CURRENT EXPENSE.

The balance of \$24,291.15 appearing to the credit of the current expense account at the close of the year ending July 31, 1902, is in one sense unreal, for the reason that in June and July the receipts are unusually large, coming from the June settlement of taxes, the interest on the University fund, and the Federal treasury. If the funds available for the support of the University were received in equal monthly amounts, the above balance would entirely disappear. Indeed this inequality in the monthly receipts sometimes produces financial stringency, which is somewhat alleviated by the course of business long in practice, which is as follows: By a rule adopted by the Board of Regents, long ago, no officer, professor, agent or other person is authorized to incur any indebtedness in behalf of the University without a requisition previously granted by the board or its executive committee. Under this rule whenever anything is wanted the head of the department in which the need arises makes requisition in writing, upon forms provided for the purpose, stating what is wanted and the estimated cost. The Executive Committee considers the application, obtains such additional information as is necessary, if any, to determine the necessity and cost of the thing asked for, and refuses, grants or modifies the requisition. If granted in whole or in part the committee give such directions as they may deem necessary for the economical procurement of the thing needed, which quite often is of such a char-

acter as to require skilled agents. After the articles mentioned in the requisition are purchased, or the work specified therein is done, bills therefor are presented to the executive committee by those who have furnished the things or done the work, which, if found correct, are approved. The receipt of payment of these bills is then procured by the accountant in duplicate, and expense lists, to which are attached one of the series of duplicate receipts, are then forwarded to the state auditor, who draws his warrant on the state treasurer for the amount in favor of the treasurer of the University, and checks are then sent out for the payment of the bills signed by the accountant and countersigned by the president of the University. A delay, often of two or three months, in going through this process, helps to relieve somewhat the stringency arising from the irregularity of the income receipts. In consequence of the greatly increased attendance, which, as is previously stated, is $11\frac{1}{4}$ per cent greater than the enrollment in 1901, when the last appropriations were made, and after a careful consideration of present conditions, not overlooking the fact that the increase in the valuation of the taxable property of the state will, in due time, increase the income derived from the University special tax (which increment, however, judging from the past, will be fully offset before the close of the current biennial period, by the additional expenses entailed by increased attendance) the board are of the opinion that there is an imperative necessity for an appropriation of \$50,000, for current expenses for each of the years ending July 31, 1904, and July 31, 1905, being \$15,000 per year more than heretofore granted.

COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

The college of letters should be enlarged in the scope of its instruction, especially on the lines of political economy and sociology, if it is to meet modern requirements. But it is deficient in room even for its present curriculum. The president of the University in his report to the board says that "the departments of political economy, history, English literature and others have only one lecture room each, while they have from three to seven instructors, and that one lecture room for each department is not enough."

Dr. Northrop adds that he knows of no way to provide what is needed except to erect a building large enough to provide for all the needs of the department of philosophy, to furnish at least four

general lecture rooms, and provide for the needs of one or two language departments. The board earnestly concur with the president and beg to represent that the need of such a building is very great.

It would cost at least, \$100,000, and we recommend that that amount be appropriated for the construction of a building for language and literature.

THE COLLEGE OF ENGINEERING AND MECHANIC ARTS.

The work in this college has been carried on with marked success. The demand for its graduates is so great by business concerns that it is difficult to keep abreast of it. Professor Shepardson of the electrical department reports that during the last six months calls have been made for nearly five times as many as are in the graduating class.

The physics building is now completed and occupied. It was carefully planned for its uses, and well constructed. The planning and construction of it have had the intelligent, persistent and faithful attention of Professor Frederick S. Jones, now the Dean of the College.

The new buildings, one for mechanical engineering, and one for electrical engineering, have added greatly to the efficiency of the departments, and rendered instruction therein more productive and satisfactory. These buildings are as large and well constructed as the amounts appropriated therefor would allow. It is hoped the college is now supplied with room for years to come.

Present conditions require the repair and partial rearrangement of the old Mechanic Arts building. Additional equipment for the new buildings of the mechanical and engineering departments is necessary to produce the best results, especially for the partially equipped electric light and power plant, which is expected to show marked economy over buying electric light and power from the local company.

For these purposes we respectfully ask an appropriation of \$30,000.

THE SCHOOL OF MINES.

The school of mines was established as a new department of the University in 1891, with an appropriation of \$6,000 for opening it and furnishing it with suitable apparatus. It was deemed prob-

lematical whether such a school was needed. The result has fully justified its establishment, and it meets an important demand for specialists in the development and carrying on of the important mining interests of the state. The school registered in the last year 109 students. Two separate buildings have been provided for its accommodation. One of them, the ore-testing building, was damaged by fire last summer, presumably the result of lighting, and its machinery and contents injured or destroyed. The property was fully covered by insurance. The loss on the building was settled with the insurance companies by their paying the contract price, under a contract entered into with R. McMillan & Co., for its restoration, viz., \$2,300, and the damage to the machinery and other contents was adjusted at an amount deemed adequate to restore and replace them, viz., \$3,842.34. The other building, for which there was appropriated by the last legislature \$47,500, is now in process of construction, and it is hoped that it will soon be ready for occupancy. It was found that the building as originally planned could not be built and equipped within the appropriation; and it was reduced in size to the final limit of adequacy, and still on account of the increased cost of building the bids were still not within the appropriation. Rather than delay a building for which there was an immediate and imperative necessity, and rather than build an inadequate and unsatisfactory one, the board took the responsibility of letting the contract leaving the third floor unfinished. This building and the ore-testing building when restored and completed with their machinery and other equipment are deemed adequate to meet the public demands for years to come. We venture to hope that the course of the Regents in these matters will meet the approval of the legislature, and that an appropriation of \$25,000 will be made to complete the construction and equipment of the new building.

DEPARTMENT OF AGRICULTURE.

The agricultural department, which includes the college of agriculture, the school of agriculture, the dairy school, the farmers' short course and the experiment station, has continued to grow in efficiency and usefulness during the two years just past. The prospect is for a largely increased attendance the current year.

There have been in all 397 graduates from the regular school course and about 900 from the dairy school. Of the graduates

from the regular school course 82 per cent are engaged in farming, or teaching, or experimentation in agriculture.

The new departure in agricultural education, first inaugurated in this state, and designed to carry forward such education upon two separate lines, viz., the college scientific course of four years leading up to the degree of Bachelor of Agriculture, and the school course of two years conducted mainly on practical and utilitarian lines, has continued to demonstrate its value and to call forth encomiums not only from our own people, but from other agricultural institutions of the country. Indeed agricultural education as carried on in the University is assigned a front rank by the highest authorities on the subject. The success of the system and the great benefits flowing from it are matters of sincere congratulation to our people. The enrollment of 21 last year in the college course is not so large as present conditions would justify. There is a demand for thoroughly educated men in the science of agriculture, for the work of investigation and research, and for professors, instructors, guides and leaders in the agricultural institutions.

The new buildings erected and equipped during the biennial period have added much to the efficiency and usefulness of the school and station.

The new chemical building will not be ready for occupancy before the opening of the winter term. This building furnishes much needed accommodation for both school and station work in agricultural chemistry. Owing to the material increase in the cost of building materials and labor, the appropriation granted permitted only the construction of the building, and left no funds for equipment. The building itself will be completed without deficit. The laboratory tables and fixtures from the old laboratory will be removed and used in the new building.

In this division the work of investigation has been largely along food and soil lines. Free analyses of materials sent in by the farmers and citizens of the state are made whenever the results are of public value.

The course in the dairy school, which is believed to be of great benefit to the dairy interests of the state, will hereafter be given in November, instead of January.

The vacancy in the teaching force and in the experiment station caused by the death of Dr. Lugger has been filled by the election of Prof. F. L. Washburn, who began work June 1, 1902.

Prof. Thomas Shaw resigned his position as Professor of Animal Husbandry, in April, 1902. His resignation was accepted by the Board of Regents, and Mr. Andrew Ross, associate professor of agriculture, was placed in charge of animal husbandry. Professor Shaw has been employed as instructor in live stock in the school of agriculture to give one-half his time to the work during the six months of the school year.

The experiment station has continued, during the biennial period, to conduct investigations and experiments along lines most useful to the farmers of the state. The two new varieties of wheat known as Minnesota No. 163 and Minnesota No. 169, which were originated at the station, and which have been distributed to the farmers of the state, give promise of being of great value. The method of distributing these new varieties of grains is worthy of mention. Instead of distributing gratuitously and indiscriminately small quantities of seeds to all who apply for them, as is done in the government distribution, lots of four bushels each are sold at a fair price to careful and painstaking farmers in the different sections of the state, who in turn raise crops from this seed and sell to their neighbors at a fair advance over market prices.

During the two years the experiment station has issued six bulletins for general distribution, two class bulletins and six press bulletins.

No pains have been spared to make the work of the substations at Crookston and Grand Rapids as useful as possible to their respective sections of the state. The work of Mr. Chapman, at Grand Rapids, in reforesting cut over timber lands, and in issuing short bulletins on timely topics to the farmers is worthy of special mention.

The school of agriculture is in pressing need of more dormitory room. For several years the dormitories for boys have been inadequate, and many students have been obliged to find rooms in St. Anthony Park, and the two cities. It is thought that the boarding facilities are sufficient to accommodate the occupants of an additional dormitory, the cost of which would be about \$40,000. The erection of a large main building, the need of which was set forth in our last report, cannot profitably, in our opinion, be postponed any longer. Natural and rapid development has made a larger foundation necessary. The room now used for a chapel will no longer accommodate the students of the regular course, and there is no room large enough to contain the students when called upon to assemble. It is respectfully suggested that true econ-

omy requires that such building be substantially constructed, without expense for ornament, be made fireproof, at least in parts, and be large enough to meet not only the needs of the present but the requirements of the future. It is anticipated that in the not far distant future one thousand boys and girls will present themselves for the benefits of the regular course. The agricultural division requires the entire basement of such a building, so that farm laboratory work and demonstration may be carried on in the winter when out door work with soils and machinery is impossible. A portion of the second and third stories would be required for an assembly hall, and the remainder thereof for executive officers, now in temporary quarters in the dairy building; for class rooms of sufficient size to accommodate classes which have outgrown their present quarters, and so rendered division of classes necessary at increased cost for teaching; for permanent quarters for the division of entomology; for the safe-keeping and comfortable use of the library, records of experiments, collections for an agricultural museum, records and publications of the experiment station, now stored in the dairy building, and for rooms for editing and mailing the station bulletins and other publications. The use of such a building for the purposes indicated would relieve the congestion in the other buildings by leaving additional space to meet the requirements of the divisions that remain in them. It is estimated that the cost of the construction and equipment of a building to meet these requirements at the present advanced price of labor and materials would not be less than \$225,000.

Good husbandry requires that farming implements, carriages and tools shall be housed, and the school should most certainly have the benefit of, and illustrate, this rule. There is now no storage room. It is thought that a barn can be constructed, suitable and adequate for this purpose, for \$5,000.

We respectfully recommend that an appropriation of \$270,000 be made for the construction and equipment of such main building and for an additional dormitory for boys, and for a barn for storage purposes.

THE COLLEGE OF LAW.

An addition to the law building is needed. The library rooms in the present building are taxed to their utmost capacity, and new books cannot be added and leave adequate room for the use

of the library. The department also needs more and larger rooms for classes, moot courts and lectures, and smaller private rooms for its officers. It has been necessary the last two years to hire a hall in a private building. The law library numbers 13,500 volumes of books and pamphlets, which have been most economically collected together largely through a system of exchanges. A collection, in 510 volumes, of the paper books and briefs in the cases argued in the Supreme Court from 1888 to 1900 was donated to it in the year last past by Mr. Justice Collins, of the Supreme Court, and the Hon. H. W. Childs, lately Attorney General, a valuable acquisition for a law library. The dean estimates the value of the library at \$35,000. A fire proof addition to the present building, such as was contemplated when it was built, is necessary to relieve its congestion.

Its estimated cost is \$30,000, and we respectfully recommend that that amount be appropriated for the purpose.

THE COLLEGE OF MEDICINE AND SURGERY.

This college registered in the year 1900-01 330 students; in the year 1901-2 362 students; and it has entered for the current year up to date of this report about 300. Dr. Beard, the secretary of the faculty, expresses, in its behalf, the opinion, which is no doubt correct, that the increased attendance of last year and the decreased registration in this are due to a common cause, the one in anticipation, the other in consequence, of the higher requirements for entrance, which took effect at the opening of the current year. The advanced requirements for admission are the same as for admission to the sophomore class in the college of science, literature and the arts. The requirement of the college course, or a part of it, as intermediary between the high school and the professional school must be deemed in some degree experimental. Two of the leading medical colleges now require the full degree. The faculty are satisfied that the admission of a class of 50 in the first year of these advanced requirements justifies the progressive step, which has for its object the turning out of men better fitted for professional work, even if the number be reduced, and of thus better conserving the public health, and keeping the college now well established on its merits in the medical world in line with the best of them in progressive spirit and accomplishment.

The department of medicine is deficient in facilities for laboratory work. Laboratories are absolutely essential for research and investigation, and the trend of medical education is in the direction of more individual work and illustration in laboratories, due, no doubt, to the theories now well advanced of the germ origin of disease. In their work of research and investigation the State Board of Health and the division of pathology and bacteriology of the University, of which the accomplished Dr. Wesbrook is the head, have heretofore been helpful, and can be made more helpful, to each other, and helpful and instructive to our students. Both are cramped for room to meet modern requirements. To meet these requirements it has been proposed that a new building be erected on the campus to accommodate both the work of the State Board of Health and the work of pathology and bacteriology of the medical department of the University, in which proposition this board heartily concurs for reasons already appearing. This will relieve the crowded medical science building and afford better accommodations therein for the chairs of histology and embryology, and for the college of pharmacy, which is sadly in need of more commodious quarters. It is suggested that in order to forestall any future question as to division of occupancy the State Board of Health be assigned the use of a designated part of the building and the University the use of the remainder, to be adjusted, perhaps, by the authorities of the two institutions by agreement between them, when the plans are settled upon. The cost of the construction and equipment of a building adequate to meet present and prospective requirements is estimated at \$125,000.

In March, 1902, the anatomical building was damaged, and part of its contents destroyed by fire. The loss on both building and contents was fully covered by insurance. The building was fully restored by the insurance companies at an expense of \$4,898.95. The loss on the contents was adjusted at \$2,500, with which the damaged and destroyed articles were replaced as far as they could be. The museum suffered the incidental loss of pathological specimens which could not be replaced, and embarrassment would have followed but for the fact that fortunately a portion of such specimens were in another building and available for use in the classes.

The clinical building is inadequate for the uses demanded of it, and we respectfully ask for an appropriation of \$25,000 for its enlargement.

COLLEGE OF DENTISTRY.

The work in this college is of a high order, and its graduates find ready appreciation and employment. The college has outgrown its quarters, in one end of the old medical building, and its students can no longer be fitly accommodated and instructed therein.

We beg to suggest that it would be true economy to give this college a permanent home adequate for the present and the future. This would require a building that would accommodate, say, 300 students, containing an amphitheatre large enough to hold them, four laboratories, two other lecture rooms, an infirmary to accommodate 80 students, a room for the library, and business offices. Such a building would provide permanently for present and future wants, for it is thought that a school much larger than 300 is undesirable on account of the difficulty of maintaining the desirable contact between teacher and pupil. The tuition is \$100 per year, and it is thought that supplied with these facilities the college would soon become self-supporting.

A substantial, plain building furnishing the accommodation above indicated would cost \$70,000, and we respectfully recommend that that amount be appropriated for the construction and equipment of such a building.

COLLEGE OF PHARMACY.

Proper accommodation has never been provided for this college, but it is thought that enough space may be found in the portion of old buildings to be vacated, if the foregoing recommendations are carried out, to meet present requirements.

GEOLOGICAL AND NATURAL HISTORY SURVEY.

The survey has been prosecuted the last two years on the natural history lines.

The fund for prosecuting the survey arises from the proceeds of the sale of the Salt Spring lands, so called, the trust of disposing of which and applying the proceeds to the expenses of the survey having been reposed, by law, in the Board of Regents.

The balance to the credit of this fund August 1, 1900, was.....	\$17,082.23
The receipts from land and stumpage sales in the year ending July 31, 1901, were.....	54,339.09
Total	<hr/> \$71,421.32
The expenditures the same year were.....	21,703.90
Balance August 1, 1901.....	<hr/> \$49,717.42
The receipts from land and stumpage sales in the year ending July 31, 1902, were.....	16,757.39
Total	<hr/> \$66,474.81
The disbursements the same year were.....	18,682.97
Balance August 1, 1902.....	<hr/> \$47,791.84

Land contracts are now outstanding to the amount of \$13,578.06.

Only two tracts of agricultural land amounting to 240 acres remain unsold, the estimated value of which is about \$10 per acre.

The title also still remains in the state of 4,620 acres in Itasca county, granted as indemnity lands, the stumpage upon which has been sold and paid for, but the timber has not yet been all removed.

It is evident from this statement that the fund at the disposal of the board will not be adequate for a thorough natural history survey, but the policy will be continued of expending what there is, with the purpose of producing the best economic and utilitarian results. The cost of publishing and disseminating the reports of the survey takes from the fund a large amount of money which might otherwise be used in field work and investigation. Reports will be ready for the printer during the current biennial period to publish and disseminate which will require an expenditure of \$10,000.

A great and rare mass of material has been collected as the results of the survey, and the time has come when provision must be made for the safe-keeping, exhibition and convenient and practical use for instruction of this valuable property. The work done in the past two years and the condition and needs of the departments of botany and zoology follow.

BOTANICAL DEPARTMENT.

The work of this department has continued to be vigorously prosecuted during the last two years, under the direction of the accomplished state botanist, Professor MacMillan.

Field work was prosecuted during the summer of 1901, in the Red River Valley, along the international boundary, in the valley of the Minnesota river, in St. Louis and Cook counties, in southeastern Minnesota, and in the twin city district; during the summer of 1902, in Itasca and Jackson counties, in southeastern Minnesota, in the extreme northeast corner of the state and in the twin city district, reports of the results of which will appear in the publications of the survey.

The accessions to the library of the department during the biennium amount to 558 bound volumes, and about 1,800 pamphlets; making a total library at the date of this report of 3,916 bound volumes, and about 15,000 pamphlets.

During the last two years covered by this report 34,089 specimens of plants have been added to the herbarium, exclusive of the collections made by the field staff during 1902. Fifty-two new cases of specimens have been added, bringing the total number up to 201. Some 30,000 specimens have been incorporated by the herbarium staff, and the whole collection is in better shape than ever before. Exchanges outstanding will net the collection some 15,000 additional specimens. The photographic survey has been extended during the two years from 873 to 3,735 negatives.

Since the last report there have been discovered 228 varieties of plants not previously known to exist in Minnesota, some of which are new to science.

During the period covered by this report, Professor MacMillan has issued two additional parts of his "Minnesota Botanical Studies," comprising 244 octavo pages, and 21 plates, and vol. 2 of this valuable series has been brought to a close; and various contributions have been made to botanical journals by the chief and his assistants.

Owing to lack of space the additions to the museum cannot be displayed. There have, however, been added some 3,000 jars of material, much of it of great importance.

The need of a fire proof building to accommodate and safeguard this vast collection, the library, the museum and the laboratories, and for class rooms, is imperative. The botanical collection is very valuable and useful, and is probably the most important scientific asset of the state. When it is considered that the science of botany, the science which deals with plant life, plant breeding, plant diseases and their prevention and cure, is the foundation of the science of agriculture, the most important interest of the state,

it would seem that suitable accommodations for the safe-keeping and use of the property of this department, now, and in the future, should no longer be delayed.

The cost of a building which would meet the requirements of the situation, at the increased cost of labor and material, would not be less than \$100,000, and we beg leave to suggest that no economic advantage would be answered by a lesser appropriation. The erection of inadequate, contracted and unsuitable buildings leads to waste, for they are not enduring, and do not well meet the requirements of the present and still less the demands of the future.

We respectfully recommend a legislative appropriation of \$100,000 for this purpose.

ZOOLOGICAL DEPARTMENT.

Field work has been confined during the last two seasons to collecting data and material on the birds and fishes, under the superintendence of Professor Nachtrieb, the head of the department, in the Lake Vermillion region, in the western and southern counties, at the head of Lake Pepin, and in and about the state park, and the head of the Mississippi river. The material collected has been stored in Pillsbury Hall and private quarters, at great risk of injury from evaporation and other causes, and is not, at present, accessible to students and scientists. It is hoped that if a new building is speedily provided for the botanical department temporary accommodation may be found for this department in the part of Pillsbury Hall vacated by the botanical department and the school of mines; but a building for the uses of this department will be required in the near future. Progress has been made in the preparation of the material for the final reports.

LIBRARY.

The library has no subject catalogue, an indispensable adjunct to the comfortable and convenient use of any considerable collection of books. It now contains about 110,000 volumes, 290,000 pamphlets, and 1,000 periodicals. We earnestly recommend that an appropriation of \$2,500 for each of the next two years be made for supplying such catalogue. The library is weak in the lines of history and political science, and the expenditure of \$16,000

would be necessary to bring it up to modern requirements on these subjects. Considerable expenditure is necessary for the binding and rebinding of books. We strongly recommend that there be appropriated for the library, in addition to the appropriation for a subject catalogue, \$7,500 for each of the next two years.

MILITARY SCIENCE.

Work in this department has made good progress, both at the University and the agricultural school, under the instruction of First Lieutenant Haydn S. Cole, an accomplished officer of the United States army.

Two full years of military work is required both of University students and students of the agricultural college, and voluntary work is done by students of advanced classes. Military drill has been carried through the school of the battalion, and instruction has been given in guard mounting, review, inspection and escort of colors, advance and rear guard work, aiming and sighting, and in extended order and battle exercises, and theoretical instruction in the class room in the elements of military science to the officers and non-commissioned officers. Lieutenant Cole reports that the progress made in the two years is very satisfactory.

It is believed that the education in military matters at the University and school will furnish to the state, and nation, men well fitted for command, if their services should be required. Two of our cadet captains have been lately appointed by President Roosevelt to the regular army and duly commissioned as officers therein.

ENDOWMENTS.

THE GILFILLAN TRUST.

On the 6th of June, 1901, the Hon. John B. Gilfillan, of Minneapolis, donated to the University of Minnesota \$50,000 in the form of 50 bonds, for \$1,000 each, of the Minneapolis, St. Paul & Sault Ste. Marie Railway Company payable January 1, 1949, with interest at four per cent per annum, payable semi-annually on January 1st, and July 1st, according to coupons annexed, in trust to receive and apply the income of such fund, by its Board of Regents, "in aid of such deserving youths of our state as might be found struggling

for an education beyond their means of obtaining," the benefaction to be bestowed in the form of either loans or gifts upon students of either sex, in any of the departments of the University, or in schools preparatory thereto. The Board of Regents adopted carefully prepared rules for the administration of the trust, which met the approval of the benevolent donor, under which it is now being administered, several students having already been recipients of the benefaction.

THE LUDDEN TRUST.

The Hon. John D. Ludden, of St. Paul, endowed the University of Minnesota in the current year with a permanent fund of \$5,000 to be held, invested and re-invested by the University through its Board of Regents, and the income thereof to be collected, received and applied by said Board of Regents to the financial assistance of students of either sex in the school of agriculture. Mr. Ludden delivered into the hands of the regents for the principal sum, one Northern Pacific registered prior lien railway and land grant gold bond of the denomination of \$5,000, payable to the University of Minnesota and its assigns in gold coin, on the first day of January, 1997, with interest at four per cent per annum, payable quarterly in like gold coin, the fund to remain so invested until the bond matures, unless by reason of changed conditions a re-investment shall be sooner deemed judicious by the Board of Regents for the safety, conservation or continued productiveness of the fund. The premium on the purchase of this first grade security was \$212.50, and was paid by Mr. Ludden, thus enlarging his donation by that amount.

MRS. ELLIOT'S SCHOLARSHIP.

At the annual meeting of the board in 1901, Mrs. Mary H. Elliot, widow of Dr. A. F. Elliot, of Minneapolis, donated to the University of Minnesota, in fulfillment of the wishes of her late husband, \$250 a year, "to be used as a scholarship loan fund for assisting young men in the school of mines."

DONATION OF DRINKING FOUNTAIN.

In the summer of 1902, Mr. Caleb Door, of Minneapolis, erected on the campus a granite drinking fountain at an expense of several thousand dollars, his generous gift to the University.

MEMORIAL FENCE.

At the meeting of the Board in June, 1902, Mrs. Sarah Pillsbury Gale presented a communication expressive of her wish to construct a fence of stone and iron of artistic design along the front of the campus on University avenue, as a gift in memory of her father, the late John S. Pillsbury. The proposition was gratefully accepted, and the fence has been constructed at an expense to Mrs. Gale of \$8,000, and ornaments as well as protects the campus.

ENLARGEMENT OF THE CAMPUS.

The constantly increasing necessity for additional parade ground for military and athletic exercises induced the late Governor Pillsbury, shortly before his death, with his usual thoughtfulness, foresight and benevolence, to purchase in his own name six lots, in a block of ten, adjoining the campus in the only direction in which its extension is practicable, at an expense to him of \$7,300, with a view of donating the same to the University. His heirs now express their desire to convey these lots to the University in fulfillment of such intention. The Board of Regents, realizing the importance of the addition of this block of land to the campus, rendered all the more imperative by the present and prospective encroachment of new buildings on the old parade ground, and of prompt action, has ascertained that the other four lots, without which the six so proposed to be donated would not be available for the purpose intended, upon two of which are improvements, can be secured for \$8,921. The street between this block and the old campus has been vacated, thus adding to the ground made available by the purchase. Grading to a considerable extent will be necessary to put the new grounds in condition for use. It is thought that \$11,000 will be required for the cost of these four lots and the grading of the whole block, and the board confidently hopes that an appropriation of that amount will be made for the purpose, available at once.

IMPROVEMENT OF THE CAMPUS.

The campus is not in as good or attractive a condition as it should be, due partly to the constructions which have been going on upon it. It needs new walks, the setting out of shade trees, and

putting in order generally. The board recommends that an appropriation of \$5,000 for each of two years be made for the purpose.

EXTRAORDINARY REPAIRS.

It has developed that the earlier constructed tunnels to contain pipes for the transmission of heat, light and power from their source of production to the various buildings were deficient in size, and defective in construction, in respect that they are not adequately protected from moisture by concrete and cement bottoms and linings. The result is that the asbestos covering of the steam pipes disintegrates and falls off, and much heat is wasted. There is no doubt that true economy requires the immediate reconstruction and enlargement of these tunnels. It is estimated that the expense of such repairs and enlargement will be \$20,500, and we respectfully ask, in the interests of economy, that that amount be appropriated therefor, to be immediately available.

ORDINARY REPAIRS.

The foundation both on the campus and at the school of agriculture has become so large that the customary appropriation for ordinary repairs must needs be increased to \$10,000 per year, to meet the demands upon it, and we respectfully recommend that \$10,000 per year be appropriated for this purpose.

CARE OF CRIPPLED AND DEFORMED CHILDREN.

Prior to 1897, no attempt had been made by any state in the Union to relieve crippled children from their deformities at the public expense. Many institutions had been established for their benefit in the east, but these were all supported by private charity. To our own state was reserved the honorable distinction of being the first to carry on this work under its own auspices and at its own expense. It is gratifying to notice that the great state of New York, from which we have borrowed so much in legislative enactment and state policy, has followed our example in this matter.

The work was entrusted to the Board of Regents by the provision of chapter 289, laws of 1897. It was promptly taken up and

has been carried on without interruption down to the present time. We have earnestly endeavored to carry out the provisions of the law and to give the children coming within its terms the benefit and advantages contemplated by it.

We have entered into a contract with the Board of Control of the city and county hospital, in St. Paul, by the terms of which provision is made for the care of the children at that institution. A two-story brick building entirely detached from the other hospital building has been set apart for the exclusive use of the children under our charge. This building is well lighted and heated and is kept in a thoroughly sanitary condition. Under our contract the city hospital is to care for the children as patients are cared for in first class hospitals, including attendance of trained nurses day and night, food, washing, bandages and medicines; in fact everything that the children need except physicians' attendance and braces and mechanical appliances. The Board of Regents pays the Board of Control of the hospital, for the services above mentioned, \$3.75 per week for children under twelve years of age, and \$4.50 per week for children between twelve and sixteen years, the latter being the maximum age at which any are received.

This contract has been renewed from time to time for periods of two years each, as the work has been continued in our hands by the legislature and new appropriations made. The current period will expire May 1, 1903. We have found our arrangements with the city hospital very satisfactory. The children have received most excellent care from Dr. Ancker, superintendent, and all of his assistants.

The work was commenced in October, 1897. Since that date and up to December 1, 1902, 160 patients have been received into the hospital and six have been treated outside, making 166 in all. During the two years which have elapsed since the making of our last report, seventy-one patients have been received and one has been treated outside. For a full statement as to what has been accomplished in the medical and surgical treatment of these children during the past two years reference is made to the report of Dr. A. J. Gillette, surgeon in chief. Dr. Gillette receives no compensation for his services. They are entirely voluntary. He does a large amount of work for these children and he does it in a most conscientious and careful manner. To his efforts more than to those of any other person the success of the work is due. He has for his consultant, Dr. J. E. Moore, of Minneapolis, who also renders his services gratuitously.

Inasmuch as some of the children remain in the hospital two or three years, and most of them at least six months, we have deemed it advisable to employ a teacher who can give them such instruction as they are capable of receiving. Miss Frances Boardman, of St. Paul, has been employed for this purpose at a salary of \$35 per month. She has done excellent work among the children. She not only gives practical and useful instruction, but with the aid of a piano she does much to enable the children to pass pleasantly what might otherwise be dreary days of confinement in the hospital.

The expenditures for the fiscal year ending July 31, 1901, were \$458.59. Of this amount \$8,365.24 was paid to the city and county hospital for the care and nursing of the children under the special contract above mentioned; \$420 was paid for kindergarten teacher's services; \$300 was paid for clerk hire and superintendence; \$12 was paid for braces and mechanical devices. The balance was for books, rent of piano, postage, printing, etc.

The legislature at its session in 1901 appropriated for this work \$10,000 per year for the two years then ensuing. During the first of these two years (July 31, 1901 to July 31, 1902) we have expended \$9,397.31. Of this amount \$8,437.09 was paid to the city and county hospital for the care and nursing of the children, under the special contract above mentioned; \$332.50 was paid for kindergarten teacher's services; \$300 was paid for clerk hire and superintendence; \$140.58 was for braces, mechanical devices and books. Further small expenditures were made for rent of piano, postage and incidentals.

Though there is a small balance from the appropriation of the past year unexpended it must be remembered that on grounds of economy we did not publish any annual report and did not receive any children who were not strictly entitled to, and much in need of, treatment. With the publication of a new report January 1st, calling the attention of the physicians throughout the state to this work, it is quite probable that the number of patients will increase to such an extent that they cannot be cared for under the present appropriation. If the legislature continues the work in the hands of the Board of Regents during the next two years an appropriation of \$12,500 per annum for that period ought to be made.

What is the future of this work? Ought it to be continued and permanently established or ought it to be abandoned? After a trial covering a period of five years the policy of the state toward

this work ought to be settled. Our views on the subject are not changed since our report of two years ago was presented. On the contrary in the light of two years additional experience we are more convinced of the truth of what we then said and we repeat it here.

“As to the future of this work, we would say that, in our judgment, it ought to be continued by the state through some agency. There are, no doubt, many hundreds of indigent children in Minnesota suffering from various deformities, such as club feet, hip disease, spinal disease and dislocation of joints, most of which cannot only be remedied, but entirely cured, under the care of a competent orthopedic surgeon having at his command suitable hospital facilities, braces, mechanical appliances, etc. Few people appreciate what modern science has been able to accomplish in this direction. And this can be done without any considerable pain or suffering to the child. On the contrary, the child is, in most instances, relieved from pain as soon as the treatment commences. If these children are taken while young they may be saved from the terrible misfortune of going through life as cripples and hunchbacks, and instead of being helpless paupers and beggars they may become respectable, self-supporting citizens. It is difficult to imagine a more humane or a more profitable work in which the state could engage or to which it could devote a small part of its revenue.”

The work of carrying out the provisions of the law above mentioned is entirely foreign to the duties of the Board of Regents in the management of the University. The legislature saw fit to assign to the board the duty of inaugurating the work in the first instance and has ever since continued to invoke its services in carrying it on. The work itself was, no doubt, regarded as an experiment, and the placing of it in our hands as a temporary arrangement. We have made an earnest effort to give it a fair trial and to expend the money placed at our disposal economically and solely for the purpose for which it was intended. If the legislature at its coming session shall be able to find some other agency through which the state can carry on this work we shall be much pleased.

THE BOARD OF CONTROL.

Some conferences were had between a committee of this board and the gentlemen composing the Board of Control, with a view

of rendering available the aid and co-operation of the latter in the management of the University under the law of the last session of the legislature; but the financial affairs of the University are so manifold and varied, and of such special nature, and so interwoven with its general administration, that it was found by the Board of Control, as stated in their report, that such a division of management was impracticable, and they therefore abstained from any further attempt to put it in operation, from the high motive that it would be injurious to the University. We concur with the Board of Control on both points, and beg leave to give earnest and respectful expression to the conviction that a divided management of the affairs of an institution so complicated, vast and varied, is impracticable, and that an attempt to put it in operation could not fail to be disastrous to the University, and a public misfortune; and we beg leave further to give most respectful expression to the earnest hope that the legislative action of the last session on this subject may be reconsidered at the coming session. We add the expression of an earnest conviction that the high honor of a great trust worthily performed is a stronger incentive to, and surer safeguard for, the thoughtful, intelligent, judicious and wise administration of a great and multiform seat of learning than the discharge of the duties of an office sought or held, in whole or in part, for the emoluments attached to it. The springing up and development of all the colleges and universities of the country, whose beneficent work and accomplishment are a part of the history, and whose renown is a part of the adornment, of our civilization, fully attest and illustrate the effectiveness and wisdom of the old method of administration, and point to the risk and danger of departing from it.

OBITUARY.

No formal announcement of the death of John S. Pillsbury is necessary. The sorrow has extended throughout the state and beyond its limits. There is perhaps no place outside of the homes of his family and relatives where he will be more missed than in this board. His love and devotion to the University, and his powerful aid in its development have been the theme of many memorials in many places, and it is unnecessary to enlarge upon them here. We desire to express a final word of love, respect and esteem for John S. Pillsbury, widely and justly honored and distinguished as citizen, statesman and philanthropist.

SUMMARY OF APPROPRIATIONS NEEDED.

Current expense, \$50,000 a year, annual.....	\$100,000.00
Construction and equipment of botanical building.....	100,000.00
Completion and equipment of mines building.....	25,000.00
Addition and equipment to law building.....	30,000.00
Construction and equipment of building for literature and language	100,000.00
Construction and equipment of building for college of dentistry.	70,000.00
Equipment and repairs in engineering department.....	30,000.00
Improvement of the campus, \$5,000 a year for two years.....	10,000.00
Ordinary repairs, \$10,000 a year, annual	20,000.00
Extraordinary repairs, tunnels.....	20,500.00
Library, \$7,500 a year for two years.....	15,000.00
Subject catalogue for library, \$2,500 a year for two years.....	5,000.00
Enlargement and grading of campus.....	11,000.00
Construction and equipment of main building for school of agriculture	225,000.00
Construction and equipment of boys' dormitory for school of agriculture	40,000.00
Equipment of chemical building at school of agriculture.....	5,000.00
Construction and equipment of farm implement building at school of agriculture.....	5,000.00
Enlargement of clinical building.....	25,000.00

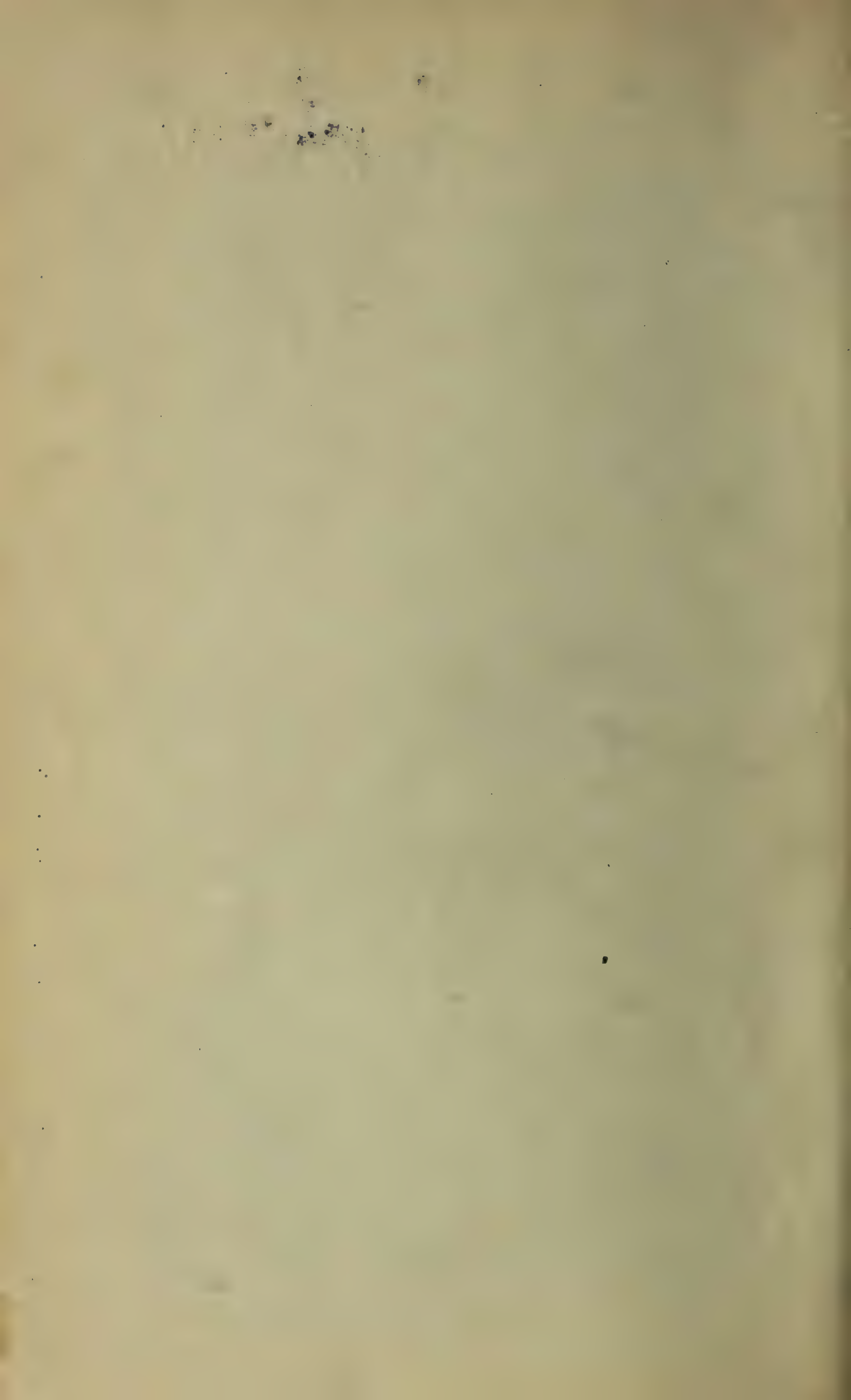
The foregoing review shows that the pressing needs of the University are great, and it cannot be concealed that the provision made for it heretofore has not fully kept pace with its development. This does not arise from any want of interest or pride in the University, or lack of appreciation of its great and increasing influence and importance; but it is rather because its development has been rapid beyond all anticipation and all precedent. From small beginnings it has already grown to a great beneficent and honored seat of learning a credit to the state. It would be most disastrous if it should retrograde, and most unfortunate if it should remain stationary or fail to meet the demands upon it. No doubt is entertained that it will receive the watchful care and solicitude of the people and the legislature in the future, as it has in the past, and that it will go on, in the plenitude of strength, to perform its full share in the future, as it has in the past, in developing the material resources and promoting the prosperity and happiness of our beloved commonwealth, a fitting head and crown of our splendid educational system. We have placed its needs

ankly and faithfully before you, and through you before the legislature, and it must be left to the wisdom of the legislature to deal with them.

All of which is respectfully submitted in behalf of the Board of Regents.

University, Dec. 9, 1902.

GREENLEAF CLARK,
President.



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FIFTEENTH
BIENNIAL REPORT

[NUMBER 26 IN THE SERIES]

of

THE BOARD OF REGENTS

of

The University of Minnesota

FOR THE FISCAL YEARS ENDING
JULY 31, 1907, 1908.

1908
SYNDICATE PRINTING CO.,
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To His Excellency John A. Johnson, Governor of Minnesota.

SIR: On behalf of the Board of Regents of the University of Minnesota, and pursuant to law, I have the honor to herewith submit the fifteenth biennial report of the Board for the period ending July 31st, 1908.

Respectfully,

JOHN LIND, President.

FIFTEENTH BIENNIAL REPORT.

FINANCES.

The balance on hand to the credit of the general university fund, August 1st, 1906, was \$72,180.23. The total receipts for the fiscal year ending July 31st, 1907, were \$540,154.57, making the total amount available for that year, \$612,334.80. The expenses for the year were \$537,771.54, leaving a balance of \$74,563.26, indicating that the expenses were \$2,383.03 less than the income for the year.

The balance on hand August 1st, 1907, was \$74,563.26, the total income for the year was \$670,556.76, making a total of \$745,120.02, available for the year. The expenses for the year were \$686,588.14, leaving a balance, August 1st, 1908, of \$58,531.88.

This indicates on its face that the expenses exceeded the income by only \$16,031.38 in the fiscal year ending July 31st, 1908, but an analysis of the items of the balance (as shown in the tabulated statement) shows that the receipts for that year were swelled by the apportionment to the University of an extraordinary distribution of interest from the State Institutions Fund amounting to \$16,542.92. Deducting this sum from the gross receipts the ordinary income for that year was \$654,014.84. The expenses of the year exceeded that sum by \$32,573.30.

The large increase in attendance the present year, the necessary increase in expenses incident to this fact and to the general growth and development of the institution makes it inevitable that the excess of the absolutely unavoidable expenses of the year will exceed the income by at least \$26,257.08, as shown by the estimate which follows:

ESTIMATED RECEIPTS AND CURRENT EXPENSE EXPENDITURES FOR THE FISCAL YEAR ENDING JULY 31, 1909.

RECEIPTS:

From grants made by the United States government, etc., approved March 2, 1861 and July 2, 1868, being the interest on bonds of various states in which the resulting funds are invested	\$57,000.00	
Interest in bank deposits.....	800.00	
United States treasurer, Morrill bill.....	15,000.00	
United States treasurer, Nelson bill.....	10,000.00	
From State Appropriations:		
Direct appropriation	165,000.00	
23-100 mill revenue tax.....	235,000.00	
State institutions fund interest.....	16,542.92	
From the University:		
Fees	159,000.00	
Dental infirmary receipts.....	15,000.00	
Miscellaneous receipts, university.....	1,500.00	
Agricultural school and station receipts.....	23,000.00	
Total receipts		\$707,842.92

EXPENDITURES:

Estimated payroll for 1908-09.....	\$570,100.00	
Estimated bills for supplies.....	126,000.00	
Bills for fuel.....	38,000.00	
Total estimated expenditures.....		\$734,100.00
Estimated excess of expenditures over receipts....		\$26,257.08

To cover the probable excess of expense over income for the current year, as indicated above, there is available the balance on hand August 1st, 1908, amounting as shown to \$58,531.88, but this balance contains two items received from the federal government amounting to \$35,000.00 (\$25,000 under the Morrill bill and \$10,000 under the Nelson bill) which, by reason of the fact that the year of the federal government ends one month earlier than that of the State, were paid to the University before the end of the last fiscal year, and have been, for the purposes of book-keeping, carried as part of the receipts for that year, but as a matter of law those appropriations are only available for the current year and they are included in the estimated receipts for this year, so that the apparent balance of \$58,531.88 should be reduced by \$35,000, leaving \$23,531.88 as the real balance on hand August 1st, 1908, available for the current year.

It will thus be observed that the Board of Regents entered upon the work of the current year with an income for the maintenance of the institution much below its indispensable requirements and

with a deficit at the end of the year threatened. While the writer of this report was not a member of the Board during the time in which the expenditures of the last fiscal year were principally incurred, careful investigation convinces him that the like painstaking economy was exercised by the Board as then constituted as is the endeavor of the present Board.

Our State is growing in population, wealth and development with leaps and bounds. The attendance of our institutions of learning and the demands for additional facilities are increasing in like manner. Estimates of increase in these respects are barely made before they require revision and larger figures. To guide the efficient and symmetrical development of the institution under such conditions is in itself a great task. It cannot be accomplished without adequate means. New buildings and other instrumentalities are demanded from time to time, but the money appropriated for those purposes is little better than wasted unless the funds available for maintenance and general expenses are sufficient to secure and maintain harmonious development and complete co-ordination of the several colleges and departments and the highest attainable efficiency in all.

The pressure on the Board of Regents, both from within and without the institution, to enter new fields of activity is constant and at times almost irresistible. Under that influence the institution has attained its present vast dimensions, both in the scope of its work and in attendance. No backward step will be tolerated but unless the legislature in its wisdom otherwise directs it is not the plan of the Board to enter upon any new work, at present, except such as may be necessarily incident to the efficiency of that already undertaken. But notwithstanding this attitude of the Board it is impelled to urge the absolute necessity of an increase in the annual appropriation for current expense. The Board earnestly recommends that the legislature devote $\frac{1}{2}$ mill to this purpose, instead of 23.100 of a mill supplemented by special annual appropriations as is now the practice. A certain income, from year to year, fixed in advance and governed in amount by the growth of the State, and the consequent requirements of the University, would enable the Board to adopt and follow a more settled policy in the administration of the affairs of the institution and would be conducive to economy. Intermittent and irregular appropriations for permanent objects always result in loss and more or less waste. Inadequate funds for maintenance means inefficient work. The State having assumed the responsibility for furnishing our future citizens higher education they should not be permitted to waste their time.

A matter of \$50,000 to \$75,000 per annum cannot in justice or with safety to the State, be allowed to outweigh the present and future vital interests of an army over four thousand of young men and women.

The following table showing the attendance in each year from 1868, to the present time best illustrates the growing needs of the institution:

1868.....	83	1882.....	253	1896.....	2,467
1869.....	146	1883.....	222	1897.....	2,647
1870.....	212	1884.....	289	1898.....	2,890
1871.....	225	1885.....	310	1899.....	2,925
1872.....	265	1886.....	406	1900.....	3,236
1873.....	278	1887.....	412	1901.....	3,413
1874.....	287	1888.....	491	1902.....	3,656
1875.....	237	1889.....	781	1903.....	3,788
1876.....	267	1890.....	1,002	1904.....	3,845
1877.....	304	1891.....	1,183	1905.....	3,790
1878.....	371	1892.....	1,374	1906.....	3,955
1879.....	386	1893.....	1,620	1907.....	4,145
1880.....	308	1894.....	1,828	1908.....	4,421
1881.....	271	1895.....	2,171	1909.....	4,671

ESTIMATES FOR NEW BUILDINGS AND FOR ANNUAL APPROPRIATIONS FOR THE ENSUING BIENNIAL PERIOD.

The Board of Regents feels that the estimates herewith submitted for new buildings may seem high, but they beg leave in that connection to express their judgment that the time has come for requiring all new construction to be made not only fire-proof, but time-proof as far as possible. Every structure hereafter erected should be permanent in every sense of the word. To meet these requirements the initial expenditure will of necessity be somewhat larger than would be required for construction to afford more temporary facilities. The estimates submitted are designed to cover the expense of adequate construction, both with regard to fire-proof and permanency. Estimates are submitted only for necessary buildings. Of these the necessity for some is *imperative*. The required buildings and estimates are given in the order of urgency.

The existing heating plant is not only utterly inadequate to supply the buildings already provided for, and in process of construction, but it is very wasteful. The fuel bill is necessarily large for an institution of the size and extent of the University, but it is the judgment of the Board, based on the best available expert information, that the coal bill, based on present demands for heating, could be reduced by 25 per cent by an up-to-date plant and modern appliances. Large sums are paid out annually for light and electric

energy which ought, on grounds of economy, if for no other reason, be generated in the plant. Careful investigation leads us to believe that an adequate plant for heating, light and power cannot be erected and equipped for less than \$150,000. This amount would not be sufficient except for the fact that much, if not all, of the present equipment can be utilized in the new plant. Hence we recommend an appropriation of \$150,000 for the erection and equipment of an adequate plant for heating, lighting and power purposes.

Some months ago the interior of the Anatomy building and contents were wholly destroyed by fire. The loss was well covered by insurance and will be reported upon by the Board of Control. The Anatomy building was wholly inadequate for the purposes for which it was constructed, and the walls are in such condition that the Board does not deem it advisable to attempt its repair for the same use. Whether it can be profitably repaired for any purpose can probably not be determined until in the spring. A new structure for Anatomy has accordingly become an imperative necessity and we recommend an appropriation of \$200,000 for an anatomy building which will also provide quarters for the departments now housed in the medical laboratory building, which will then be assigned to the use of the College of Dentistry. \$40,000 should be spent upon that building to re-arrange it and make it adequate to the needs of the College of Dentistry.

The College of Pharmacy has suffered greatly for years from being inadequately housed and from lack of proper facilities. To erect a new building for that college at the present time does not seem advisable to the Board of Regents, especially as the grouping of the different colleges and buildings on the new campus has not been sufficiently studied. The location of the new Elliott hospital and the Anatomy building has been practically determined on, as well as the future location of the other buildings pertaining to the Medical group. It seems therefore more economical and better policy for the Board of Regents to recommend the construction of another building for the Medical college in place of the structure known as Millard hall at a cost of \$200,000. The present Millard hall, with some changes, deemed entirely feasible, can be made to adequately accommodate the College of Pharmacy, and the re-arrangement of the use of the several buildings referred to would also afford more ample facilities for the College of Dentistry.

For the reasons already indicated it is also deemed absolutely necessary by the Board that the donation for the Elliott Memorial

hospital (Ch. 80 Laws of 1907) be supplemented by an appropriation of \$40,000 to aid in its erection and equipment.

Equally imperative with the need of the buildings already recommended is the necessity for a woman's dormitory. \$100,000 would be sufficient for that purpose.

In regard to the College of Education the Board submits the following statement and recommendations:

By chapter 120, General Laws of 1905, the Board of Regents of the University were required to "organize and establish in the University of Minnesota as soon as practicable a teachers' college or department of pedagogy, for the purpose of affording proper professional training for those persons who intend to become public and high school instructors, principals and superintendents of schools." Prior to this enactment the Board of Regents had established a department of pedagogy as part of the college of Science, Literature and the Arts, which fact must have been known to the legislature at the time of the passage of the Act referred to. Hence the Board assumed that the legislature required the work already undertaken to be extended, and with that end in view the Board of Regents on December 12, 1905, voted to establish a college of education, and selected Professor George F. James as dean.

A course of study was prepared and promulgated with the sanction of the board which involved the establishment and maintenance of various classes in a model school, and additional teachers have been employed for conducting those classes. Such model school has been efficiently conducted during the past two years, but under conditions which do not afford the facilities that the work demands. The board has been without room and without funds to make better or more adequate provisions for the work.

The majority of the board also seriously question the wisdom of conducting a model school in connection with the work done in the university, believing that provision for that part of the work as incidental to the training of teachers might better be made in the normal schools. It is proper to say, however, that this view is not shared by the faculty of the college, nor by the professional teachers of the state or the heads of the normal schools. All these bodies insist most urgently that pedagogical work along the lines specified by the legislature cannot be efficiently or properly done without the aid of an adequate model school; assuming that the legislature will be governed by the views of the profession in this matter, we have no hesitancy in expressing our deliberate judgment that if it is the aim of the legislature to maintain an efficient college

of education along lines demanded by the teaching profession of the state, it is absolutely necessary that the legislature appropriate not less than \$150,000 for a new building for that purpose and to provide not less than \$25,000 annually for its maintenance. If, however, the legislature should see fit to grant the recommendation of the board and allow one-half mill for maintenance of the entire institution, no annual appropriation will be required for maintenance.

The departments of Animal Biology and Botany, at present housed in Pillsbury Hall, are greatly hampered in their work for want of room and the quarters are illy suited for the work. A new building for those departments is necessary, but its construction cannot be wisely undertaken at an expense of less than \$300,000. If that sum cannot be appropriated to be available in the present biennial period it had better be deferred until the next session.

Many of the existing buildings have been in use for a long time and require considerable expenditure for repair and maintenance. It is deemed better economy for the legislature to make a substantial increase in the appropriation for general repairs than to make appropriations for specific buildings. The increase in other appropriations where such increase is recommended, is made necessary by the growth and general increase in the work of the institution. The appropriations for the library have been so inadequate in the past that the board was compelled to take upward of \$6,000 last year from the meagre fund for maintenance to increase the library facilities. The board recommends the following annual appropriations for the State University:

A.

1. For current expense, one-half mill.
2. For the law library, \$5,000.
3. For the general library, \$20,000.
4. For periodicals and binding, \$3,500.
5. For care of campus, \$3,000.
6. For general repairs, \$25,000.
7. For cataloging labrary, \$2,500.
8. For maintenance of Elliott hospital, \$50,000.

B. For Agricultural School at St. Anthony Park.

1. For soil inspection, \$1,000.
2. For purchase of live stock, \$4,500.
3. Investigation of horticultural crops, \$1,000.
4. For paying expenses of necessary assistance, apparatus, etc., state entomologist in the investiagtion of injurious insects, \$2,000.
5. Care of campus, \$1,000.
6. Breeding field crops, \$5,000.
7. Support of forestry school, \$4,000.
8. Library fund, \$3,500.

9. Study of drainage problems, \$1,000.
10. Study of plant diseases, \$400.
11. Also the following specific appropriations for new construction and repair:
 - Pendergast hall, repair, \$13,000.
 - Dining hall and home building, repair, \$2,500.
 - Extension of water mains, \$700.
 - Extension of gas mains, \$1,000.
 - New well and pump, \$2,000.
 - Extension of sewers, \$2,000.
 - Repairs, veterinary building, \$800.
 - Completion of dairy pavilion and barn, \$15,000.
 - Remodeling dairy hall, \$15,000.
 - Repairing greenhouses, \$1,500.
 - Construction of coal bunkers, \$6,000.
 - Construction of girls' dormitory, \$50,000.
 - Building for hog cholera work, \$5,000.
 - For construction of alcohol plant, \$6,000
 - C. For maintenance of the agricultural school at Crookston, \$12,000.
 - D. For maintenance of substation at Crookston, \$8,000.
 - E. For maintenance of substation at Grand Rapids, \$7,000.

THE NORTHERN PACIFIC RAILROAD.

When the Northern Pacific Railroad Company instituted proceedings to secure the right of way through the university campus, the Board of Regents appears to have used every effort to defeat the application, but the supreme court, by a divided vote, permitted the condemnation and the road was constructed through a portion of the campus as its boundaries were then defined. The extension of the campus pursuant to authority granted by the legislature has been wholly to the south of the railroad tracks and as a result the campus is now practically divided in two by the line of the railway. The company's right of way is 132 feet in width. Only two tracks have been constructed and are now in operation. Their grade is at an average depth of approximately 30 feet below the surface, the excavation being greatest near the river and decreasing toward the east. Some of the buildings now erected have been necessarily located near these tracks, others to be erected in the future will also of necessity have to be placed in close proximity to it. As was anticipated by the Board of Regents the operation of trains through the campus has been disastrous. The noise incident to operation interrupts class work in many of the buildings every day and frequently work has to be suspended while trains are passing. The loss of time to the faculty and students is very great in the aggregate. Another very serious embarrassment, as well as absolute loss to the university, arises from the constant emission by the locomotives passing through the campus of vast volumes of smoke and fumes which are destructive not only to the buildings, but especially to all kinds of delicate apparatus.

At some distance to the east of the campus the line crosses Oak street at grade. There is an active movement afoot to abolish this grade crossing, either by elevating the railroad track above the street, which would necessitate the elevation of the tracks for a considerable distance through the campus, or, by lowering the tracks and bridging the same for the purpose of street travel. The engineering department of the city of Minneapolis favors the former course very strongly, but the city council up to the present time, at the earnest solicitation of the board, backed by public-spirited bodies of the city, has refrained from consenting to the raising of the railroad tracks, as such course would prevent their being covered through the campus in the future.

The present situation is absolutely intolerable. The railroad tracks must either be removed to another location, which is probably feasible, though it would involve considerable expense, or they must be covered through the campus.

The board earnestly requests your excellency and the legislature to give this matter careful consideration, to take such action and to confer upon the board such additional power as may be necessary to insure a proper adjustment of this question.

CAMPUS EXTENSION.

The status of the financial operations of the board under authority of Chapter 359 of the Laws of 1907, at the end of the last fiscal year, is as shown by the statement which follows. But the proceedings for the acquisition of the land are not sufficiently advanced at this time to enable the board to make a report that would be of any practical value to your excellency or to the legislature.

It is believed, however, that such report may be made in the early part of the session and the board will accordingly make, and submit a special report on this subject at an early day.

UNIVERSITY CAMPUS EXTENSION FUND CERTIFICATE PRINCIPAL AND INTEREST.

Certificate No.	Interest.	Principal.	Due.	Fund from which to be drawn.	To whom to be made payable.
1 to 8, inclusive.	\$2,250.00	.....	Jan. 10, 1908.	Campus Fund	Minn. L. & T. Co.
9	1,125.00	.....	Mar. 19, 1908.	Campus Fund	State of Minnesota
1 to 8, inclusive.	2,250.00	.....	July 10, 1908.	Campus Fund	Minn. L. & T. Co.
1 and 2	.....	\$25,000.00	July 10, 1908.	Tax Fund	Minn. L. & T. Co.
10 to 69, inclusive.	9,000.00	.....	Aug. 1, 1908.	Campus Fund	Minn. L. & T. Co.
9	1,125.00	.....	Sept. 19, 1908.	Campus Fund	State of Minnesota
3 to 8, inclusive.	1,687.50	.....	Jan. 10, 1909.	Campus Fund	Minn. L. & T. Co.
10 to 69, inclusive.	6,750.00	.....	Feb. 1, 1909.	Campus Fund	Minn. L. & T. Co.
9	1,125.00	.....	Mar. 19, 1909.	Campus Fund	State of Minnesota
3 to 8, inclusive.	1,687.50	.....	July 10, 1909.	Campus Fund	Minn. L. & T. Co.
3 and 4	.....	25,000.00	July 10, 1909.	Tax Fund	Minn. L. & T. Co.
10 to 69, inclusive.	6,750.00	.....	Aug. 1, 1909.	Campus Fund	Minn. L. & T. Co.
10 to 29, inclusive.	.....	100,000.00	Aug. 1, 1909.	Tax Fund	Minn. L. & T. Co.
9	1,125.00	.....	Sept. 19, 1909.	Campus Fund	Minn. L. & T. Co.
9	.....	50,000.00	Sept. 19, 1909.	Tax Fund	State of Minnesota
5 to 8, inclusive.	1,125.00	.....	Jan. 10, 1910.	Campus Fund	State of Minnesota
30 to 69, inclusive.	4,500.00	.....	Feb. 1, 1910.	Campus Fund	Minn. L. & T. Co.
5 to 8, inclusive.	1,125.00	.....	July 10, 1910.	Campus Fund	Minn. L. & T. Co.
5 and 6	.....	25,000.00	July 10, 1910.	Tax Fund	Minn. L. & T. Co.
30 to 69, inclusive.	4,500.00	.....	Aug. 1, 1910.	Campus Fund	Minn. L. & T. Co.
30 to 49, inclusive.	.....	100,000.00	Aug. 1, 1910.	Tax Fund	Minn. L. & T. Co.
7 and 8, inclusive.	562.50	.....	Jan. 10, 1911.	Campus Fund	Minn. L. & T. Co.
50 to 69, inclusive.	2,250.00	.....	Feb. 1, 1911.	Campus Fund	Minn. L. & T. Co.
7 and 8	562.50	.....	July 10, 1911.	Campus Fund	Minn. L. & T. Co.
7 and 8	.....	25,000.00	July 10, 1911.	Tax Fund	Minn. L. & T. Co.
50 to 69, inclusive.	2,250.00	.....	Aug. 1, 1911.	Campus Fund	Minn. L. & T. Co.
50 to 69, inclusive.	.....	100,000.00	Aug. 1, 1911.	Tax Fund	Minn. L. & T. Co.
	\$51,750.00	\$450,000.00			

UNIVERSITY CAMPUS EXTENSION FUND.

Year 1907-8, Ending August 1, 1908.

RECEIPTS.

From sale of certificates of indebtedness.....	\$450,000.00	
Interest	487.50	
Sale of house.....	1,000.00	
	<hr/>	
Total receipts		\$451,487.50

EXPENDITURES.

Land purchased by condemnation.....	\$145,568.95	
Land purchased by agreement.....	80,428.25	
Printing, advertising, etc.....	1,146.94	
Attorney's fees	1,500.00	
Services of appraisers and commissioners.....	1,936.25	
Interest on certificates of indebtedness.....	5,625.00	
Traveling expenses advanced to engineering building committee	500.00	
Prizes awarded for two best plans.....	1,500.00	
Survey of campus and plans.....	632.89	
Miscellaneous expenses	123.27	
	<hr/>	
Total expenditures		\$238,961.55
		<hr/>
Auditor's balance August 1, 1908.....		\$212,525.95

STATE INSTITUTIONS FUND.

Under the state law of 1865, certain swamp lands were set aside to be sold for the benefit of state institutions. The state constitutional amendment, adopted in 1881, acted to repeal the law of 1865 and the law of 1907 was passed to make effective the plain intent of the constitutional amendment of 1881. The fund from the sale of this land had grown to be \$780,556.25 at the end of the fiscal year 1906. This fund must be kept intact and its income apportioned for the benefit of state institutions. One half of the interest which amounted to \$62,145 goes to the common school fund and the balance to the state institutions pro rata on the basis of the cost of maintenance. This brought into the university fund \$16,542.92. Hereafter the interest will be apportioned annually upon the same basis, and will amount to approximately \$6,000.

BORROWING MONEY.

The Board of Regents again call the attention of the governor and members of the legislature to the recommendation in their report four years ago:

“Moneys coming into the treasury for the benefit of the university from the June tax settlement, and from interest on part of

its permanent fund, constituting a considerable part of our income, are not received until after the close of the academic year. This necessitates the borrowing of money by the University, in the winter and spring months, to meet its current expenses. It is suggested that this necessity may be avoided, and the interest saved, by the enactment of a law authorizing the temporary transfer, to a limited amount, and under proper supervision, of moneys from the general revenue fund of the state to the general University fund. The State Auditor is of the opinion that this may be done without embarrassment to the treasury."

The situation then existing has not changed and the relief asked for would be in the interest of economy.

INCREASE IN SALARIES.

The most important matter entrusted to the Board by the last Legislature was an increase of \$105,000 in the annual appropriation for current expense, mainly for the purpose of increasing salaries of the University professors. The Board used \$93,250 for that purpose and the balance to employ needed instructors and assistants.

There has been no appropriation made by the Legislature for the University that has meant so much for the improvement of University conditions as has this for advancing salaries to something nearer a proper living basis. While this advance has afforded great relief, the present scale of salaries of members of the faculty is below that which must in time be established and maintained if Minnesota is to attract and retain men of high rank and advance to its proper place among the leading institutions of the country. The urgent necessity at this time, however, is for means to enable the Board to employ more mature and better equipped instructors.

THE RETIRING AGE AND THE CARNEGIE FOUNDATION.

Inasmuch as the Board of Regents have adopted the following resolutions, by the operation of which men and women who have rendered years of faithful service to the State will be retired at the age of sixty-five years we feel that the least that can be done for these faithful servants of the state is the enactment of legislation that shall permit them to share in the benefits of the Carnegie Foundation. Resolved:

1. The age limit for retirement of those in the service of the University on an annual salary is hereby fixed at 65 years.
2. Those now in the service of the University on an annual salary, who have reached the age limit shall be retired at the end of the present fiscal year.

3. Thereafter retirement shall take place at the end of the fiscal year in which the age limit is reached.

4. The service of any person retired may, by special resolution of the Board of Regents, be continued from year to year, if in the judgment of the Board his services are indispensable to the welfare of the University.

ABSORPTION OF HAMLINE MEDICAL DEPARTMENT.

On the fourth of March, 1908, the Board of Regents took action by which the medical department of Hamline University was taken over by the University and made part of its College of Medicine and Surgery. The details of this transaction will be found set forth in the report of President Northrop.

THE CROOKSTON SCHOOL OF AGRICULTURE.

The question of provision for the future growth and development of the Agricultural School at Crookston, should, in the judgment of the Board be considered together with the general proposition to establish such schools in various parts of the state. We feel, however, very strongly that such schools, if established, should be made feeders to the institution at St. Anthony Park and that their courses of study should be made to lead up to that school just as the high schools furnish preparation for the University. Whatever is done regarding the whole matter should be done with a view to bringing the Crookston school under the general provisions of the plan.

SPECIAL FUNDS APPROPRIATED BY THE LEGISLATURE OF 1907.

For Permanent Improvements:

- \$12,000 for sewers for the Department of Agriculture.
- \$6,000 for the Military Department.
- \$5,500 for additional water mains for the Campus.

For Experimental Purposes—for each of the two years:

- \$1,000 for additional buildings at the Crookston Station.
- \$3,000 for additional buildings at the Grand Rapids Station.
- \$1,000 for soil inspection.
- \$3,500 for breeding field crops.
- \$4,500 for purchase of live stock.
- \$1,000 for horticultural investigations.

For Current Expense—for each of the two years:

- \$3,500 for care of the Campus.
- \$15,000 for general repairs.

For the Library, \$19,500—for each of the two years. For statement of the disposition made of this fund see report of President Northrop.

These funds, so far as they have been available to date, have been used for the purposes specified in the appropriation. The Department of Agriculture now has an up-to-date sewer system; the University buildings have been given better fire protection by the laying of much-needed water mains and the fund for Military Department has been used to grade the drill field at the School of Agriculture and for needed changes and improvements in the University Armory.

The buildings provided for the Experiment Stations have been erected and the money appropriated for experiments has been expended as shown in the detailed financial statements in this report.

The appropriation of \$25,000 for the support of the Elliott Hospital has been kept intact, since the hospital has not been built, save for an appropriation of \$1,500 made for the support of the dispensary in St. Paul.

THE UNITED STATES GOVERNMENT SPECIAL FUNDS.

The Adams Fund was devoted to the following uses:

- \$1,200 for the Farm.
- \$1,500 for Chemistry.
- \$1,600 for Dairy.
- \$900 for Entomology.
- \$1,200 for Animal Husbandry.
- \$1,200 for Veterinary Science.
- \$1,400 for Plant Pathology.

The Nelson Fund was divided as follows:

- \$1,800 for Plant Pathology.
- \$900 for Agriculture.
- \$400 for Chemistry.
- \$1,000 for Horticulture.
- \$400 for Entomology.

The money received under the Morrill bill goes into the general expense fund of the University and is used for current expenses of the Department of Agriculture.

The Hatch Fund is used solely for experimental purposes and has been expended as shown in the financial statement of the fund and with the results shown in the report of the Experimental Station.

EXPERIMENT STATION REPORT.

Reference is made to the full report of the station which will be published in book form and placed in the hands of the Governor and members of the Legislature. Further reference is made to the financial report which will be found included in the financial statement which follows.

BUILDINGS.

Since the last biennial report was made the following named buildings have been completed and occupied:

Folwell Hall, replacing the Old Main Building which was burned, was completed and occupied in October, 1907.

The Institute of Public Health and Pathology was completed and occupied in January of 1907.

The New Main Building for the Department of Agriculture was completed and occupied at the opening of the fall term of 1907.

These buildings have afforded a greatly-needed relief and it has been possible to prosecute work of the departments affected much more successfully than before.

The Legislature of 1907 made appropriations for buildings as follows:

Two hundred fifty thousand dollars for an Engineering Building. This building has not yet been erected, work on the same having been delayed on account of delay in securing additional land for the Campus and also in settling upon plans for the development of the New Campus.

Fifteen thousand dollars for a dairy barn at St. Anthony Park. This has been erected according to approved plans and is now in use.

Twenty-two thousand dollars for remodeling the Dairy Hall. This money was used in making much needed changes and improvements in this building.

For a dormitory for the Crookston School of Agriculture, \$50,000. This building has been completed and is now in use.

Fifteen thousand dollars for an Industrial Building for the same school, available this year.

The Elliott Memorial Hospital has not been built for the same reasons that have prevented the construction of the Engineering Building.

The destruction of the Anatomy Building by fire makes provisions for a new building imperative.

ADDITION TO THE UNIVERSITY FARM.

Showing expenditure of money appropriated for the purchase of additional land for the University Farm at St. Anthony Park.

Appropriation, year 1908.....	\$50,000.00
Appropriation, year 1909.....	26,000.00
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Total available	\$76,000.00
Purchased from Annie L. Hendrickson, 146 and 371-400 acres of land in Section 21, Town 29, Range 23, for.....	\$72,761.33
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Balance on hand August 1, 1908.....	\$3,238.67

FRUIT BREEDING FARM.

Appropriation, year 1907.....	\$16,000.00	
Appropriation, maintenance to August 1, 1908....	2,000.00	
		<hr/>
Total available		\$18,000.00
Expenditures:		
Land, 77.89 acres	\$8,185.05	
House and cellar.....	3,543.37	
Salary and wages	1,473.66	
Farm implements	342.86	
Live stock	225.00	
Feed	234.39	
Trees, plants and seeds.....	487.76	
Fuel	22.05	
Survey	39.50	
Lumber	397.49	
Miscellaneous expense	232.22	
		<hr/>
Total expenditures		\$15,182.75
		<hr/>
Balance August 1, 1908.....		\$2,817.25

SALT SPRING LANDS.

The auditing committee of the Board of Regents were entrusted with making a thorough investigation of the Salt Spring Lands and accounts relative thereto. The committee was authorized to employ expert accountants and this was done. A thorough investigation of the whole matter was made and the following report submitted:

The Board of Regents of University of Minnesota.

Gentlemen: Your auditing committee begs leave to report as follows:

Pursuant to authority granted by your Board, your auditing committee employed Mr. N. B. Hinckley to examine the Salt Spring Lands and the accounts relative thereto. He has completed his report, and a copy of it is submitted herewith. It appears from the report that these Salt Spring lands and the funds accruing therefrom have been carefully safeguarded by those who had them in charge.

The report shows that there is a slight difference in the plats of 9 98-100 acres, being less than the amount certified to the state. This probably is a loss to the state.

There is another allowance for acceptance in lieu of actual acreage, which appears on the certificate of 12 91-100 acres that proved to be a loss to the state, but there remains yet to be certified 1, 149 40-100 acres. Steps should be taken to recover this from the government.

There appears to be a tract of land containing 4 96-100 acres in Otter Tail county used by the Great Northern Railway for right of way, which has never been paid for by that company. We would suggest that steps be taken to obtain the value of this land from the railway company.

It appears that there are 76 61-100 acres of timber land in St. Louis county yet uncut. The above tract is not mentioned in any contract for timber previously sold. Your committee calls attention to its present condition.

We also call special attention to the mineral rights which are reserved on certain lands in St. Louis county, as these mineral rights may some day be a valuable asset to the University.

There appears to have been sold 32,838 27-100 acres of land, including that on which contracts have not matured. The amount received for this land, including interest up to date, is \$246,441.55. The sale of timber on land amounts to \$62,183.44. A total received for sale of land and timber of \$308,624.99. Of this money it appears that \$51,183.35 has been turned over to the Geological and Natural Survey account at the University. The state treasurer has received \$252,273.77, and there remains in the hands of the University treasurer \$883.86.

For the lands sold there still remains unpaid an amount of \$4,035.17. The land record books show a difference of \$4,283.00 between the actual sales and the amounts remitted to the treasurer. This is accounted for in commissions, fees and expenses paid out of these funds, amounting to \$3,836.54, leaving unaccounted for \$447.36. As the records of the University from 1878 to 1893 were not kept in complete order, it is impossible to locate amounts covering this difference of \$447.36, but if the original statements of lands sold and amounts remitted could be obtained from the very first, it would be found that certain commissions had been deducted and only the net amount included in the statements of the University. The land record books show the gross sales, and this discrepancy is accounted for from the fact that net sales are reported instead of gross, in certain cases.

In the cash turned over to the state treasurer it appears that it would be necessary to go into the old records of the state treasurer's office, prior to January 30, 1898, in order to prove that the money for Salt Spring land sales was actually received by the state treasurer. This was not sent in separately from other receipts of the University, at that time.

The books containing the list of all Salt Spring lands, with sale price, etc., containing recapitulation figures used in this report and other data, are herewith turned over to the University.

Your committee recommends that the bill of Mr N. B. Hinckley for \$271.14 be paid.

Your committee would further suggest the advisability of having the University lands and the University land account examined in the same manner as the Salt Spring lands have been.

Respectfully submitted,

(Signed) J. W. OLSEN,
A. E. RICE,
B. F. NELSON.

September 23, 1907.

The committee was instructed to continue its investigation into the state of the University lands; to confer with the State Auditor regarding the sale of timber, supposed to be on University lands; and to consult with the State Auditor and take such steps as may be necessary to recover the lands supposed to belong to the University as mentioned in the committee's report.

THE GEOLOGICAL AND NATURAL HISTORY SURVEY.

The Legislature of 1872 set aside certain lands, known as salt spring lands, for the endowment of a Geological and Natural His-

tory Survey of the State. The survey was entrusted to the Regents of the University who were authorized to sell the lands and use the proceeds in the prosecution of the work of the survey.

The geological division of the survey was completed in 1901, having been under the charge of Professor N. H. Winchell. A small amount of work is now being done along this line by the University Department of Geology in the St. Croix Valley.

The natural history part of the survey has been under the charge of the University professors of Animal Biology and Botany, as zoologist and botanist of the survey. This work is being carried on at the present time.

FINANCIAL STATEMENT.

Balance on hand August 1, 1906.....	\$33,339.43
Received from sales of reports, 1906-7.....	265.33
To sales of reports, interest, transfer of funds, etc., 1907-8.....	208.31
From land contracts.....	1,728.16
Total amount available.....	\$35,541.23
Expenditures for prosecution work on the survey, 1906-1908....	\$12,134.23
Balance available for further work.....	\$23,406.81
There are also outstanding accounts due on land contracts, amounting to \$2,318.20, plus the interest on the same.	

GIFTS AND BENEFACTIONS.

During the past biennial period the University has received gifts and benefactions as follows:

The William Hiss working library or "handapparatus" at a cost of \$750, the gift of Messrs. Alfred E. Charles S., and John S. Pillsbury. This is a notable addition to the library of the Department of Medicine, embracing as it does, some 8,400 titles and constituting the working library of one of the leading histologists of the world.

Dr. Gisle Bothne, professor of Norwegian language and literature has secured contributions amounting to \$500 for the purchase of books for the Scandinavian department.

Francis B. Guthrie, a graduate of the College of Agriculture and now in charge of an industrial mission at Batanga, Kamerun, West Africa, contributed a very valuable collection of implements and ornaments representing practically all of the manufactures of the people of that part of Africa, to the ethnological museum.

The State Horticultural Society has contributed \$500, which has been invested in the bonds of the City of Grand Rapids, Minn., by the Board of Regents, the income therefrom to be used to provide prizes in horticulture, to be known as the Gideon Memorial prize.

The most important benefaction of the period was, however, that left by the last will and testament of John D. Ludden. This good man who proved himself so generous a friend of the University during his life did not forget it in his will, and provided that

\$15,000 should be added to the amounts which had previously been given by him, to make it possible to extend the usefulness of the same. He also provided that after all other bequests had been met that the residue of his estate should be devoted to the same use. Upon suggestion of the trustees, and to facilitate their closing up the estate, the Board of Regents consented to a payment of all other legacies first and to accept the remainder of the estate. Just how much this will add to the total is not known at the present time, but it will be a substantial addition.

PRESIDENT'S REPORT.

I submit herewith the report of the President of the University, in which is fully set forth the work and growth of the University for the last biennial period:

Hon. John Lind, President of the Board of Regents.

Dear Sir: I submit herewith my biennial report as President of the University.

The last two years, 1906-7 and 1907-8, have been somewhat remarkable for the many changes in the personnel of the various faculties, for the expansion of work in some of the colleges, for the completion of several large and much needed buildings, and for the inauguration of a plan for the material enlargement of the Campus. In one sense the University has been passing through a crisis, a crisis, however, full of hope and not danger.

THANKS TO THE LEGISLATURE.

The liberality of the last legislature in adding one hundred five thousand dollars to the appropriation for the University to enable the Regents to increase the salaries of professors and instructors is gratefully acknowledged. The amount is small in comparison with the two millions recently given to Chicago University by Mr. John D. Rockefeller for the purpose of increasing salaries, by means of which, salaries in that institution have been raised twenty-five per cent and professors now receive six thousand dollars a year. But it was a generous act on the part of the Minnesota legislature to appropriate one hundred five thousand dollars for increasing salaries and it brought great relief and comfort to many of the teachers in the University. Full justice has not yet been done to all, though the Regents appropriated for salaries every dollar that could be spared for the purpose.

The liberality of the legislature is further gratefully acknowledged for its appropriation of four hundred fifty thousand dollars for the enlargement of the Campus. The Regents have fully realized the seriousness of the situation and have understood that in the enlargement of the Campus it was necessary to have definite plans that would meet the requirements for many years to come. They have therefore called to their assistance

the best talent in architecture in the country, they purpose to add to the natural beauty of the Campus whatever the highest artistic intelligence can suggest, and for the first time in the history of the University they have secured plans for laying out the Campus and for the location of buildings which it is believed will ultimately make the University with all its natural advantages of location, as attractive to the people of the state for the beauty of its grounds as it is for its educational work. These plans can not be executed in a day or a year. It will take many years. But the State of Minnesota will not die and it will see to it that the wise plans now contemplated are followed to completion by successive Boards of Regents, years after those now in service shall have passed away. The people of Minnesota are all proud of our beautiful Capitol; and I am sure that they will be proud in just degree of the University and its Campus, if the plans which the Regents have devised shall be successfully followed.

COLLEGE OF SCIENCE, LITERATURE AND ARTS.

Some new regulations governing the admission of students to the University and the course of study have been adopted by the Faculty of the College of Science, Literature and Arts.

First, the principals of high school have been requested to mark their students "passed," "passed with credit" and "passed with honor," figures being designated to indicate these. Every mark below "passed with credit" is counted as a condition; unless a State High School Board certificate is presented in addition for the subject and a student may enter the University with three of these conditions.

Second, mathematics has heretofore been required of every student entering the college. This included elementary and higher algebra and plane and solid geometry. One year of mathematics was required of every student in the University whether he had had the full preparatory work or not, the work in the University being adapted to the attainments of new students both elementary and advanced mathematics being offered to meet the requirements. Now mathematics is entirely elective for all students who have completed all the preparatory mathematics in the high school. Those who have not completed this work, are required to take mathematics five times a week during freshman year.

It should be noted that this change in mathematics applies only to the College of Science, Literature and Arts, the College of Engineering and School of Mines requiring an examination in three years' preparatory mathematics.

Third, the election of subjects by the Freshmen has been limited to three groups of subjects: First, Languages; second, Sciences; and third, Greek, History and Mathematics. Heretofore all freshmen were required to take Mathematics and Rhetoric and permitted to select their other studies without limitation. The change is in the interest of more orderly and purposeful study.

The University has heretofore established rules to secure proper scholarship of students who may engage in athletic contests. It has now adopted rules which demand as high scholarship of candidates for literary honors. No student in this college with any "condition" or failure standing against him shall be eligible after his first year, as a competitor in intercollegiate debate or oratory, or for membership on the editorial board of any student publication, or for membership in the Dramatic Club or in any student dramatic or musical organization which gives entertainments outside the University.

The College of Science, Literature and Arts now offers, in addition to the usual degree of Bachelor of Arts, a degree with distinction in some particular subject. The student who wishes to secure this degree may register as a candidate at any time during Sophomore or Junior year, when he must have an average of "good" in all previous work. At graduation in order to secure the degree he must have an average of "good" in four-fifths of his work. He must present a thesis, before May 1st of his Senior year, upon a theme related to the subject in which he is to secure distinction and approved by his adviser. He must be recommended by the Department for special excellence in the selected subject and must be approved by the Faculty.

Every regular student before the close of his sophomore year must select a major subject and the Professor in charge of the subject selected or some instructor in the department named by the Professor, becomes the student's adviser as to the other subjects he shall take. The student is not controlled in his choice of subjects by the professor but he must have forty-eight credits approved by the adviser out of one hundred and twenty-six. Of these forty-eight credits eighteen can be secured in the major subject and thirty must be selected in other departments as approved by the adviser.

A student cannot graduate in the College of Science, Literature and Arts unless he has a mark of "good" in one-half of his work or in sixty-three credits. The mark below "good" is "passed" and the mark above "good" is "excellent." A student may therefore technically "pass" and yet not receive a diploma. The reason for this action is that it was felt to be important that the standard of scholarship for a diploma should be raised and this method secures the result without embittering the life of the instructors.

CHAIR OF ACCOUNTING AND INSURANCE.

In the College of Science, Literature and Arts a chair of Accounting and Insurance has been established and has been filled by the appointment of a cultured and trained expert who it is believed will make the courses offered extremely valuable to the students. This is only one of the many subjects that are continually appealing for special recognition either by the establishment of new chairs or the introduction of new specialists to deal with new courses. Practically there is no end to the possible demands of this kind. But there is a limit to the University's ability to establish

and maintain new chairs—and it is not wise to search very much for opportunity to expand. It is wise for all departments to do the best work they can and in the most thorough way with the forces at their command. Such new subjects as may present themselves as desirable additions to the Curriculum the Regents will entertain as hospitably always as the funds of the University will permit.

CAUSES OF POOR SCHOLARSHIP.

The most certain way for a college to determine the fitness of candidates for admission is to examine them. The examination can be made so comprehensive and difficult as to test thoroughly the candidate's knowledge of the subject. A few of the oldest universities examine all their candidates for admission and do not accept high school diplomas nor teachers' certificates as evidence of proper preparation. Yale College is one of these, and from the recent report of Dean Wright it would seem that the examinations must have increased in severity in late years. Five hundred forty-two candidates presented themselves for either preliminary or final examination for the class of 1911 and of these only three hundred thirty-five, or about 62 per cent. were admitted. It appears that notwithstanding the careful and probably severe examination for admission, Yale is not entirely free from incompetent and unsatisfactory students, as the last year, the whole number of men under "warning" for the whole or a part of freshman year, was one hundred thirty-two, of whom thirty-six had entered college without conditions. Of these one hundred thirty-two, one had passed freshman year in another college and the remaining one hundred thirty-one had received their preparation as follows:

By private tutoring, 2.
In Connecticut high schools, 6.
In high schools in other states, 7.
In private schools, 116.

Upon this statement the comment is made that "the young men who enter college from high schools are as a rule good students and come for study. Among those who enter from private schools are many for whom college means general culture and social standing to be gained by extra curriculum activity rather than by study."

It is evident from all this that there is a strong tendency among students in Yale as elsewhere to relax their efforts after admission to the university has been once secured.

The University of Minnesota admits students upon satisfactory evidence furnished by certificate of high school principal that they have successfully completed a four years' course in high school, or by evidence of equivalent work in other schools. It is naturally to be expected that under this arrangement a larger proportion of candidates will be admitted than would be if an examination by the university were required. It is not surprising therefore to find that of 446 students who entered the last freshman class only 142 completed the year's work without any condition or failure.

Three causes may contribute to the multiplication of "conditioned" students. First—poor preparation for college; second—lack of industry and devotion to study after admission to college; third—the high standard of scholarship required by the college.

I do not think the standard of scholarship of the university is so high that any reasonably well-prepared student of industrious habits can not attain to it without injury to health. I do not think that the work of the university is so difficult that even a poorly prepared student can not do it successfully if he is industrious. I do think that the university course is so hard and exacting that the idle student who does not make study a business will be pretty sure to fail—and I am quite certain that most of the failures of freshman year are the result of neglect of study and not at all necessary. Many students seem to think that their work is done when they once get into the university, and that all that remains for them to do in order to secure a diploma is to hang around the institution, manage college politics, get into a secret society, cultivate social life, or in some way pleasantly or vilely spend their time to the total neglect of the things for which theoretically they have entered the university. While lack of preparation for college is to be deplored, I believe that very few students who have done well enough in the high school to secure a recommendation from the principal, need fail in college if they were fairly faithful in attending to their studies. No feature in our present day educational work impresses me so unfavorably as the limited time and labor which students generally in school and in college are willing to devote to preparation for recitations. With scant study and a great miscellaneous collection of subjects to choose from, it is no wonder that there should be a note of sorrow in the official statements of all the colleges, as their faculties realize how imperfect is the training of many who receive the diploma of the college. The only remedy is more study devoted to a smaller number of subjects at a time. But it is almost impossible to secure this when new subjects of real importance are constantly presenting themselves for admission to the college curriculum and the heads of every department in the college are constantly multiplying courses of study. I can readily see how this problem can be successfully dealt with in a small college where necessity demands that there shall be some degree of conformity to old methods for securing intellectual discipline; but in the great universities where of late years there has been a wild rivalry to show which can furnish the greatest number and variety of subjects that may be taken by students, I do not see any possible remedy but the formation of a number of more or less absolutely determined curricula by confinement to any one of which a student would pursue a logical course and would at graduation know a good deal of one large field of learning, instead of having a glimpse of all fields.

Dean Downey in his report to me dwells with great satisfaction on the relief afforded by the increase of salaries and says that "the payment of larger salaries has greatly stimulated the work by encouraging men who were receiving pay much below the value of their services, and by enabling us to compete with other institutions when we go into the field for new men."

FOLWELL HALL.

Dean Downey, to whom the university is deeply indebted for the completeness and perfection of details of the new building, Folwell Hall, makes the following statement respecting this building:

"Another great advance has been in the housing of twelve departments in a new building. Even before the burning of the old Main building all departments in the college, except, perhaps, Chemistry and Physics, were greatly cramped for room. During the three years following the fire, the work was greatly hampered by over-crowding in all the buildings. Folwell Hall, opened at the beginning of the past year, with its commodious class rooms, seminary rooms, public rooms and offices, amply accommodates all the departments that were in the old Main building and three departments that were in the Library building. The departments of Economics and Politics, History and English in the Library building, and Animal Biology, Botany, and Geology in Pillsbury Hall are still greatly in need of more room."

NEEDED BUILDINGS.

Dean Downey reports as follows respecting the need of new buildings in the College of Science, Literature and Arts.

I call attention to the greatly crowded condition of Pillsbury Hall and the Library building and urge the securing of appropriations for two new buildings to provide relief, and a women's dormitory.

The departments of Animal Biology, Botany, and Geology, all housed in Pillsbury Hall, are greatly hampered in their work for want of room and, aside from this, the quarters occupied by the department of Animal Biology are very illy suited to the work of the department. The laboratories are too small, there is no adequate place for the care of living materials for laboratory use, and the museum is a disgraceful jumble of valuable specimens which, for want of room, cannot be displayed in a way to render them useful. In spite of this jumble, many high schools send their classes in Zoology to our museum to study these collections, and doubtless many others would send their classes if the collections were more accessible. In making the collections more available to the students of the Department of Animal Biology in the University, we shall incidentally confer a great benefit upon secondary schools in our vicinity. Besides, adequate museum quarters would invite additional collections, which are now cut off for want of space to display them. Most of the specimens of the collection bought by the legislature two years ago for the University are stored in boxes and out-of-the-way corners where they cannot be used. I urgently recommend the securing of an appropriation of \$200,000 for a building for Animal Biology and a Zoological museum.

I have just learned from professors in the department that, notwithstanding the inadequacy of the rooms and facilities here, the department has many more students than has the same department in any other institution in the country. Harvard, for example, with 2,677 students in the

College of Science, Literature and the Arts, has only 251 in Animal Biology; while our college, with 1,585 students, has 416 in Animal Biology

Although the departments of Philosophy, Sociology and Philology were transferred from the Library building to Folwell Hall, the expansion of the remaining departments in the Library building and of the Library itself has much exceeded the space thus gained. During the first semester of the past year (and the figures were practically the same for the second semester) the department of Economics and Politics had 506 students, with a teaching staff of five, the department of English had 895 students, with a teaching staff of five, and the department of History had 537 students, with a teaching staff of five; yet the departments have but two class rooms each—six class rooms for 15 instructors with 56 classes—with a very inadequate supply of offices and seminar rooms. The class rooms are not only crowded beyond their reasonable capacity, but one big class follows another in each room until it becomes foul from want of ventilation. Two additional instructors have been elected in one of these departments for the present year, and others will need to be added from time to time. The library, too, is in great need of more room for the storage of books and for carrying on its work efficiently.

I therefore recommend that there be erected either a new Library building and the space now occupied by the Library be divided among the departments occupying the building, or a Chapel building and the space now occupied by the Chapel be divided among the departments and the Library.

To care for the large number of women students whose homes are not in Minneapolis, a woman's dormitory is very much needed. Nearly two-thirds of the students in the College of Science, Literature and the Arts, and the College of Education are women. Those of them whose homes are out of the city must take such places as they are able to secure in the vicinity of the University. Not enough good places devoted exclusively to women students are available. In many cases young ladies are forced to take places that are quite unsuitable, either on account of poor rooms or the presence of men students in the same house and often in adjacent rooms. I believe that not a few Minnesota young ladies go elsewhere to college because their parents are not willing that they should be situated as the conditions here require; and University authorities ought not to be willing that young lady students should be situated as many of ours are at the present time.

A Women's dormitory, in which rooms would be rented at a reasonable price to out-of-town women students, is a prime necessity.

THE COLLEGE OF ENGINEERING AND MECHANIC ARTS.

Dean Jones reports as follows: A most important change is to be noted in the curriculum of the College of Engineering. The course of study in this department has been changed from four to five years and marks a turning point in the history of technical education in the middle west. For twenty years the curriculum has been in process of readjustment made necessary by the growing demands of modern practice. The rapid development

in every line of engineering science has necessitated the instruction of a great variety of purely technical subjects at the expense of those studies which are commonly called cultural and which are admitted to be essential factors in a liberal education, such as an engineering education should aim to be. Heretofore the demand for men of technical training has been so great and the pecuniary inducements so attractive, that students have hastened to avail themselves of any opportunity offered to prepare for service in the several engineering professions. The graduating classes have increased in size and the men have found remunerative employment awaiting them upon the completion of their college course. This has been taken as a proof of the value of the technical education now offered and the engineering courses have been extolled as practical and sensible, notwithstanding the fact that they have failed to produce truly educated men. "Men are graduating in engineering courses all over the country with an ignorance of literature, history and the liberal arts so dense that no proficiency in science and technology can save them from the charge of being uncultured." Recognizing the truth of this criticism, the faculty of the Engineering College and the Regents of the University of Minnesota have agreed that an extension of the course to five years is feasible and desirable. The additional year permits the instruction of work in languages, history, philosophy and economics and justifies the college in conferring the B. S. degree at the end of the fourth year, the full degree of engineer to be granted at the end of the fifth year. It has been decided that no additional technical work shall be injected into the new course but that the year added shall be devoted exclusively to such studies as tend to liberalize the education of the prospective engineer. The work of the five years has been distributed in such a manner as to require students desiring the engineer's degree to complete the entire course, the first two years being cultural and the last three being increasingly technical in character.

It was expected that a very considerable reduction in the enrollment would result from this change in the curriculum, but the present freshman class, the first to enter upon the five-year course, numbers one hundred sixty-seven. Last year's freshman class numbered one hundred seventy-three. There is thus no reason for supposing that the additional requirement will result in turning students of the state away from the University, even though there is a possibility of obtaining an engineer's degree in shorter time at some other institution.

The requirements for admission remain as heretofore, although the acceptance of State High School Board certificates in lieu of University examinations in mathematical subjects is not proving entirely satisfactory. Many students enter the college on presentation of their certificates, who have had no practice in mathematical work for one year, and in many cases for two years. The requirement of an examination in the mathematics offered for admission would result in a thorough review of these subjects just before the student enters the college. If such a review could be made a feature of the senior year in the high school it would insure a continuity of mathematical study which would be of the greatest benefit to the en-

gineering student. This possible change in the requirement for admission is now under consideration.

The college is conducting its work under trying conditions but anticipates the relief which will be afforded by the erection of the new engineering building.

THE AGRICULTURAL DEPARTMENT

The Agricultural Department is in a very flourishing condition and by reason both of the character and extent of its work is today one of the most important parts of the University. The number of students in the College of Agriculture is increasing at a surprising rate, and it is evident that the tide has now set strongly towards agricultural education of the highest character. In view of the demand which is growing stronger every day for an increased number of technical schools and of agricultural high schools, the importance of the College of Agriculture of the University is greatly increased as a means of supplying the force of teachers needed for these multiplying schools, as well as a means of providing intelligent scientists to make needed investigations in the interest of agriculture. The special appropriations of the National Government, increased as they have recently been by the passage of the Adams bill and the Nelson bill by Congress, have placed our Agricultural College in the front rank of the University in respect to original research, and create a natural desire for a like endowment of the other colleges with means for extended and important research.

The School of Agriculture is growing in numbers and in efficiency. The school at Crookston is also doing well and is enjoying its fine new building for which the last legislature made an appropriation. A summer school for teachers has been established and has held one session of four weeks at which a large number of teachers were present. An elementary school in engineering heretofore conducted in summer by Principal Mayne, has been taken up by the University and will hereafter be conducted under the direction of the University.

Much good work has been done in the Experiment Station. Professor Haecker in particular has conducted a long series of experiments leading to most valuable conclusions in animal nutrition and he is still engaged in this work with every prospect of further valuable results. A considerable increase in the corps of experiment workers has been made possible by the enlarged appropriations by Congress, and judicious appointments have been made of men who are believed to have peculiar aptitude for the work to which they have been called.

THE DEAN AND DIRECTOR.

Hon. Wm. M. Liggett who for years had been the Dean of the Agricultural Department and Director of the Experiment Station was compelled by failing health to lay down the heavy burden which he had so faithfully and efficiently carried, and Hon. E. W. Randall was appointed to succeed him. Dean Liggett has my most hearty sympathy in his impaired health and consequent retirement from official duties.

THE SCHOOL OF FORESTRY.

Professor Green, at the head of the Forestry School, makes the following interesting report:

ITASCA STATE PARK AND THE STATE UNIVERSITY.—Itasca State Park contains about 35 sections of land surrounding Lake Itasca at the head waters of the Mississippi river. As yet, its forest growth is scarcely touched by the lumbermen, and it is a beautiful place that has in it many possibilities for good for this commonwealth. The Legislature of 1907 placed this park in the hands of the State Forestry Board and provided for the carrying on of a forest school in connection therewith, under the direction of the University. In accordance with this act, a Summer School of Forestry has been held in the park during the past year. It has been well attended, and the results plainly show that applied work of this kind can be made interesting and instructive to students, and I believe that if it is continued and properly supported it is destined to exert a very potent effect upon the proper management of our forest wealth. I feel that in this park the state of Minnesota has an opportunity for the building up of a great forestry school.

FOREST EXPERIMENTS.—There are many problems in connection with the conservation of the forest wealth of Minnesota that the University could undertake to advantage. It could use Itasca Park as a demonstration forest, where could be shown on a commercial scale, without in any way interfering with the park features of the place, the most practicable means of protecting forests from fire and of securing a re-stocking of land with the valuable kinds of timber trees.

FUNDS FOR STUDENT LABOR IN STATE FORESTS.—In the development of our School of Agriculture we have found it best to provide that our students put in a portion of their time with some good farmer or gardener, thus getting valuable experience, and there has been no difficulty about finding places of this kind, where they could earn the means to take care of part of their expenses, as well as secure the experience needed. One of the greatest handicaps in our forestry work is the lack of means for giving our students practical experience. There are no forests properly managed in this state, so our students are absolutely powerless to secure the needed experience, and I would suggest that a liberal provision be made by the next legislature for the employment of these students on the forest reserves of this state, since the students need the experience and the state needs the labor. An arrangement of this kind could be worked out to mutual advantage.

A CONVENIENT DEMONSTRATION FOREST AT HAND.—The citizens of Cloquet are desirous of having a demonstration forest in their vicinity and are prepared to donate to the state for forestry purposes a suitable tract of land, amounting to 2,640 acres, and located in what is now known as the Fond du Lac Indian reservation. This land is only two and one-half miles from the city of Cloquet and four miles from Carlton, and can be reached in four hours from the University. I would recommend that this tract of land be accepted by the state for the University for forestry purposes, and that the Legislature be requested to make provisions for its proper maintenance.

If the University of Minnesota is afforded reasonable means for the work of forest conservation it stands ready to take hold of it in earnest. I believe that the only permanent way of conserving our forest resources is by educating many young men who shall understand the importance of, and the best method of managing them. It should be remembered in this connection that the forests of Minnesota have added enormously to its pros-

perity, and that they are capable of producing continuously if properly managed, while under the slovenly system, or lack of systems, now followed, large tracts of timber lands in this state are absolutely non-productive.

I would also call your attention to the fact that when the forests of Germany were in a similar plight and the people woke up to an appreciation of the importance of the conservation of forest wealth that it was necessary for the state to put enormous sums of money into reforestation, and it will be necessary for Minnesota to treat liberally this phase of University work if our forests are to be properly cared for.

THE SCHOOL OF MINES.

The high standard of work has been maintained in the School of Mines. It is hoped and expected that arrangements will soon be made by which the students will be brought into close relations with the mining in Northern Minnesota, and I am grateful for the interest in this matter shown by the managers of the mines.

THE COLLEGE OF DENTISTRY.

This college is the equal of any college of dentistry in the country so far as its training goes. The pressure for admission is greater than the college can accommodate. If the proposed transfer to the College of Dentistry of the present Medical Science building can be made, there will be ample accommodation for all, and the College of Dentistry will be placed on a permanent foundation and will prosper even more than in the past.

THE COLLEGE OF PHARMACY.

The great need of this college is a building. Dean Wulling has shown wonderful patience as he has waited year after year for an appropriation to be made for a building, and he has never failed to attend to his duties in developing the school. A new building with proper equipment will make our College of Pharmacy what it ought to be—as good as the best.

THE SCHOOL OF CHEMISTRY.

Dean Frankforter in taking charge of all the work in Chemistry for all departments of the University, has assumed a very heavy burden, and although he is assisted by quite a large corps of able assistants, the work is so exacting that it interferes decidedly with his plans for original investigation. There are so many important problems to be solved in connection with the development of the west, and Dean Frankforter has done such valuable work in investigating the value of by-products of timber and grain, that it would be good economy for the University to give him assistance enough to enable him to devote a considerable portion of his time to research work—that work being in part what the University was established for.

THE COLLEGE OF LAW.

Owing to the fact that the requirements for admission to the Law College will be greater next year than this, the attendance is likely to be

larger than ever in the year 1908-09. The college has enjoyed the past year lectures by a number of leading lawyers at the Minnesota bar, in addition to the faithful work of the regular faculty. The library of the college has received substantial additions, and the work of the college has been carried forward with success in all respects.

Beginning September, 1909, students entering the law school for a degree must have one year's college work, in addition to four years of high school work or the equivalent as a preparation for admission. It is proposed to raise the requirements for admission so as to include two years of college work in the near future.

THE COLLEGE OF MEDICINE AND SURGERY.

Notwithstanding the requirement of two years of work in college before entrance to the College of Medicine and Surgery this college is gaining in the number of students. The College of Physicians and Surgeons, the Medical Department of Hamline University, surrendered its charter the present year and its pupils were received into the University of Minnesota. They will complete their course in the University of Minnesota but will be graduated by Hamline University. This arrangement was agreeable, I believe, to all concerned. The burning of the Anatomy building makes it necessary for the Regents to decide whether it is best to rebuild, or to build a new building like the old, or to provide for the work in anatomy in some other building to be erected for the accommodation of other departments as well as anatomy. The College of Medicine and Surgery is doing excellent work, and students desiring the best medical education will make no mistake if they enter this college.

The hospital provided for by the bequest from the Elliot estate has been delayed in its construction beyond all expectation by reason of the enlargement of the campus and the incompleteness of the plans for laying out the campus and locating the buildings on it.

THE LIBRARY.

The librarian, James T. Gerould, submits, at my request, a brief report of the University Library, for the two years beginning August 1, 1906, and ending July 31, 1908. It is as follows:

Total number of books added.....	21,399
The record of gifts is as follows:	
Books	1,733
Pamphlets	3,901
Maps	174

According to the records of the Library, we have expended for books, periodicals and binding a total of \$41,196.70.

This figure does not include the expenditures of the law library. The payments included in the above named sum have been made out of the following funds:

Fire loss	\$ 422.37
Current expense	8,428.64
Main equipment building.....	14,023.05
Special library	13,822.90
Special periodicals and binding.....	4,498.74

The special appropriation for the beginning of a complete catalogue of the Library became available August 1, 1907. The first two months were spent in certain necessary preliminary work and cataloging actually began on October 1. During the twelve months ending September 30, 1908, the cataloging done may be summarized as follows:

Cards prepared	32,812
Volumes catalogued	24,334
Titles catalogued	10,034

Of the cards in the catalogue on October 1, 1908, 15,714 were the printed cards prepared by the Library of Congress and 17,098 were typewritten.

The Library Committee of the University Council makes an earnest plea for largely increased appropriations for the library and they present statistics showing that the University of Minnesota is spending very little for the yearly growth of the library compared with the expenditure for the same purpose by other state universities. I commend the communication of this committee to your careful consideration.

NECROLOGY.

The University has lost three very valuable men by death: Assistant Professor Edward E. McDermott, of the Department of Rhetoric, died Feb. 27, 1908. He had by years of faithful service proved himself most useful both to the University and the high schools of the state. He had organized the debating leagues and had done much to restore debate and oratory to the position they formerly held. Prof. McDermott was a man of excellent character and high ideals and during his whole career at the University he steadily grew in the esteem of his colleagues and of his students, and his death was very sincerely mourned by all.

Dr. Jacob E. Schadle, Professor of Rhinology and Laryngology, died in April, 1908. He was eminent in his profession—beneficent in his spirit and practice—and his death is deeply regretted by his colleagues and by the large circle of patients to whose comfort and health he so patiently and skillfully ministered.

Dr. James O. Wells, Professor of Crown and Bridgework and Porcelain Art, died on August 27, 1908. He had ben ill for some time and had expected to take a leave of absence for a year in hopes of recovering his health. But an attack of pneumonia hastened his death. He had been a valued member of the faculty of the College of Dentistry.

CHANGES IN THE FACULTIES.

The last two years have been remarkable for the number of changes which have occurred in the personnel of the faculties of the University of Minnesota. More than twenty professors and instructors have left the University on account of age, or to enter upon other work, or removed by death, and more than fifty new men have been added to the faculties. The list of those who have ceased to be members of the faculties is as follows:

Harold L. Lyon.....	Assistant Professor of Botany.
Wm. W. Folwell.....	Librarian and Professor Political Science.
Frank L. McVey.....	Professor Political Economy.
Arthur L. Parsons.....	Instructor in Geology.
Edward E. McDermott.....	Assistant Professor Rhetoric.
Edward Sanford.....	Assistant Professor Rhetoric.
O. P. McElmeel.....	Instructor in Rhetoric.
Fred D. Calhoun.....	Instructor in Rhetoric.
John S. Carlson.....	Professor Scand. Language and Literature.
Hubert C. Carel.....	Professor of Chemistry.
Wm. H. Merriman.....	Instructor Mechanical Engineering Dept.
Edward C. Oliver.....	Instructor Mechanical Engineering Dept.
James M. Tate.....	Instructor in Carpentry.
Wm. R. Hoag.....	Professor Civil Engineering.
Wm. L. Westermann.....	Assistant Professor of History.
Margaret L. Nickerson.....	Instructor Medicine and Surgery.
E. F. Hertz.....	Professor College of Dentistry.
Edward K. Parker.....	Assistant in Agriculture.
C. Shroeder.....	Assistant in Animal Husbandry.
Mary McIntyre.....	Librarian.
Linda H. Maley.....	Instructor in Rhetoric.
Jacob E. Schadle.....	Professor of Rhinology and Laryngology.
James O. Wells.....	Professor of Crown and Bridge Work.

Instructors who have come during the last two years:

Fred E. Clements.....	Professor of Botany.
John H. Gray.....	Professor of Economics.
E. V. Robinson.....	Professor of Economics.
Raymond Phelan.....	Instructor in Economics.
C. D. Allin.....	Instructor in Political Science.
J. B. Miner.....	Assistant Professor of Psychology.
Rowland Hayes.....	Instructor in Psychology.
Frank F. Grout.....	Instructor in Geology.
Wm. H. Bussey.....	Assistant Professor of Mathematics.
Edward M. Lehnerts.....	Assistant Professor of Geography.
W. L. Westermann.....	Assistant Professor of History.
Leulah Judson.....	Instructor in History.
Chas. W. Nichols.....	Instructor in Rhetoric.
Haldor Gislason.....	Instructor in Rhetoric.
Joseph W. Beach.....	Assistant Professor of English.
Chas. M. Andrist.....	Assistant Professor of French.
Gisle Bothne.....	Prof. of Scand. Language and Literature.
A. A. Stomberg.....	Prof. of Scand. Language and Literature.
Fletcher H. Swift.....	Assistant Professor of Education.
Albert E. Jenks.....	Assistant Professor of Anthropology.
Samuel N. Reep.....	Assistant Professor of Sociology.
John A. Handy.....	Instructor in Chemistry.
James Zimmerman.....	Instructor in Chemistry.
E. H. Comstock.....	Instructor in Mathematics.
Burt L. Newkirk.....	Instructor in Mathematics.
John Martenis.....	Instructor in Mechanical Engineering.
W. T. Ryan.....	Instructor in Electrical Engineering.
S. C. Shipley.....	Instructor in Mechanical Engineering.
Edward Quigley.....	Instructor in Mechanical Engineering.
H. J. Kernes.....	Instructor in Civil Engineering.
A. S. Cutter.....	Instructor in Civil Engineering.
Frank B. Rowley.....	Instructor in Drawing.
E. D. Brown.....	Acting Professor Medicine and Surgery.
Arthur W. Meyer.....	Asst. Professor of Medicine and Surgery.
H. E. Robertson.....	Demonstrator Medicine and Surgery.
J. P. Sedgwick.....	Instructor Medicine and Surgery.
J. P. Johnston.....	Asst. Professor Medicine and Surgery.
H. M. Lufkin.....	Prof. Homeopathic Medicine and Surgery.
H. A. Maves.....	Instructor College of Dentistry.
Jay N. Pike.....	Instructor College of Dentistry.
H. S. Godfrey.....	Instructor College of Dentistry.
U. E. Heddy.....	Instructor College of Dentistry.
G. M. Damon.....	Instructor College of Dentistry.
Robt. L. Greene.....	Instructor College of Dentistry.
Wm. L. Lasby.....	Instructor College of Dentistry.
Edward K. Slater.....	Assistant Professor Dairy Husbandry.
John T. Stewart.....	Prof. Agricultural Engineer and Phys.
Robert C. Lansing.....	Assistant Professor English.
H. B. Roe.....	Instructor Mathematics.
E. M. Freeman.....	Professor Botany and Plant Pathology.

THE CARNEGIE PENSION FUND.

Mr. Andrew Carnegie, whose liberality has done so much good to this country not only directly by gifts for libraries and for the support of educational institutions and work, but even more by the noble example of liberality which he has given to men of wealth every where, has added five millions of dollars to his previous gift of ten millions of dollars to provide pensions for retiring professors, and he has given these additional five millions for the express purpose of enabling state universities to share in the distribution of the pension fund, as at first they could not. In no way could Mr. Carnegie have done an act of greater utility, for it relieves the colleges from the necessity of retaining professors after their usefulness is impaired and it insures peaceful and comfortable old age to many weary professors who have never been able to accumulate much property and have lived all their lives in greater or less anxiety regarding the comfort of those dear to them and regarding their own comfort when they should be no longer able to earn even the small salary they have been accustomed to receive.

A professor to be eligible for retirement on the ground of age, must have reached the age of sixty-five and must have been for fifteen years professor in a higher institution of learning. To be eligible for retirement on the ground of length of service, a professor must have had twenty-five years of service in a higher institution of learning. To receive a pension, the professor must cease absolutely from teaching as a member of the instructing staff of the college. Whether a professor's connection with a college as teacher shall cease at the age of sixty-five or at an earlier or a later age is a matter solely within the jurisdiction of the professor himself and of the authorities of the institution in which he serves.

In order that the University of Minnesota may receive the benefit of this noble pension fund, it is necessary that the Board of Regents, the Governor of the state and the Legislature, shall all formally approve of the University's accepting the pensions from the Carnegie Fund. The Board of Regents has already expressed unanimously its approval; and I can not for a moment suppose that the Governor or the Legislature will hesitate to give their approval also.

The attendance the last two years has been as follows:

SUMMARY OF TOTALS.

	1906-1907.		
	Men.	Women.	Total
The College of Science, Literature and Arts.....	465	879	1,344
The College of Engineer.....	458	.....	458
The Department of Agriculture.....	628	197	825
The College of Law.....	496	2	498
The Department of Medicine.....	425	17	442
The School of Mines.....	138	.....	138
The School of Chemistry.....	51	9	60
The College of Education.....	4	13	17
The Graduate School	60	35	95
The Summer School University Section.....	85	171	256
	2,810	1,323	4,133
Less duplicates .....	.....	.....	62
			4,071

1907-1908.

	Men.	Women.	Total.
The College of Science, Literature and Arts.....	578	906	1,484
The College of Engineer.....	473	.....	473
The Department of Agriculture.....	727	203	930
The College of Law.....	494	6	500
The Department of Medicine.....	422	27	449
The School of Mines.....	148	.....	148
The School of Chemistry.....	61	7	68
The College of Education.....	9	23	32
The Graduate School	74	33	107
The Summer School University Section.....	109	223	332
	<hr/>	<hr/>	<hr/>
	3,095	1,428	4,523
Less duplicates .....	.....	.....	102
			<hr/>
			4,421

The enrollment for the year 1908-9 is already more than 4,650.

New buildings are asked for by the various colleges of the University as follows:

A building for the College of Pharmacy.

A building for Medical Sciences, the present building to be assigned to the College of Dentistry, now so crowded for room as to be unable to receive all students who wish to enter.

A Zoological building and museum.

A Woman's Dormitory.

A building for Practice School in the College of Education.

A Men's building.

And most necessary of all, a heating and lighting plant.

A WOMAN'S DORMITORY.

It is deplorable that the University has no dormitory for women. It is very difficult to find suitable boarding places for women students, and the existing conditions are not at all satisfactory. In very few places are the accommodations such as they ought to be. Without particularizing it is enough to say that any one who will look into the situation as it is, or will confer with Dean Comstock in reference to her experience in providing suitable oversight of the women students, will soon be convinced that a Woman's Dormitory is one of the most pressing needs of the University today.

CYRUS NORTHROP,

President of the University of Minnesota.

Respectfully submitted, with the subjoined financial statement,

JOHN LIND,

President of the Board of Regents.

FINANCIAL STATEMENT.

Hon. John Lind, President of the Board of Regents:

Sir: I herewith submit the financial report of the University of Minnesota for the fiscal years commencing August 1, 1906, and ending July 31, 1908.

JOSEPH D. BREN,
Cashier University of Minnesota.

August 1, 1908.

CURRENT EXPENSE, 1906-1907.

Statement of Receipts and Disbursements for the Year Ending July 31, 1907.

RECEIPTS.

Auditor's balance August 1, 1906.....	\$37,269.53
Auditor's balance in fuel fund August 1, 1906.....	4,794.66
Receipts, year 1905-6, turned into treasury after August 1, 1906.....	40,091.96
Receipts from kitchen and dining hall fund, School of Agriculture to replace amount advanced from current expense fund.....	2,045.46
Total	\$84,201.61
Less June and July bills paid after August 1, 1906.....	14,821.38
	\$69,380.23
Revolving fund	2,800.00
	\$72,180.23

From the United States Government—

Grant made by the government approved March 2, 1861, and July 2, 1862, being interest on the bonds of various states in which the resulting funds are invested..	\$50,885.54
Interest on bank deposits.....	1,011.06
United States treasurer, Hatch fund, year 1906-7.....	15,000.00
United States treasurer Hatch fund, year 1907-8.....	3,750.00
United States treasurer Morrill fund.....	25,000.00
United States treasurer Nelson fund.....	5,000.00
United States treasurer Adams fund, three quarterly payments	5,250.00
(First quarterly payment for year 1906-7 and \$5,000 for year 1905-6 included in auditor's balance, August 1, 1906).	
Total from the United States government.....	\$105,896.60

From State Appropriations—

23-100 of one mill revenue tax.....	\$205,051.09
Additional appropriation	60,000.00
Total from the state.....	\$265,051.09

From the University—

Students' fees	\$127,946.15
Dental Infirmary receipts.....	10,470.65
Miscellaneous receipts	1,493.25
School of Agriculture—sales and fees.....	10,478.61
The Experiment Station—sales.....	8,818.22
Total from the university.....	\$169,206.88
Total receipts	\$612,334.80

DISBURSEMENTS.

	Pay Rolls.	Bills.
August	\$10,937.42	.....
September	34,767.26	\$7,205.58
October	37,005.57	11,990.67
November	37,918.00	9,911.60
December	37,101.25	14,262.53
January	37,510.53	8,703.98
February	37,760.28	8,864.24
March	39,974.07	6,641.87
April	37,701.13	12,369.73
May	38,769.54	8,314.48
June	38,401.37	6,906.02
July	12,398.20	9,411.25
Total	\$400,244.62	\$104,584.95
Fees paid county treasurer by state auditor.....		\$168.06
Bills paid from current expense, later transferred to in-		
sectary equipment fund.....		183.45
Fuel bills		32,590.46
Pay roll		400,244.62
Total disbursements		\$537,771.54
True balance August 1, 1907.....		\$74,563.26

Note.—For distribution of balance see following statement:

DISTRIBUTION OF BALANCE, AUGUST 1, 1907.

Hatch Bill, first quarterly payment for year 1907-8.....	\$3,750.00
(Transferred August 1, 1907 to separte account).	
Morrill Bill, for year 1907-8.....	25,000.00
Revolving fund	2,800.00
23-100 of one mill revenue tax for year 1907-8.....	43,013.26
Total	\$74,563.26

CURRENT EXPENSE, YEAR 1907-1908.

Statement of Receipts and Disbursements for Year Ending July 31, 1908

RECEIPTS.

Auditor's balance August 1, 1907.....	\$34,388.21
Auditor's balance in fuel fund August 1, 1907.....	1,197.31
Receipts belonging to year 1906-7 turned into treasury after August	
1, 1907	49,944.20
Total	\$85,529.72
Less July bills, year 1906-7, paid after August 1, 1907....	\$9,411.25
Less fuel bills, year 1906-7, paid after August 1, 1907.....	4,352.21
Total	\$13,766.46
Revolving fund	\$71,763.26
	2,800.00
True balance August 1, 1907.....	\$74,563.26

From the United States Government—

Grants made by the government approved March 2, 1861	
and July 2, 1862, being interest on the bonds of vari-	
ous states in which the resulting funds are invested.	\$57,063.82
Interest on bank deposits.....	430.79
United States treasurer Morrill bill, 1908-9.....	25,000.00
United States treasurer Nelson bill, 1908-9.....	10,000.00
Total from the United States government.....	\$92,494.61

From State Appropriations—

23-100 of one mill revenue tax.....	\$221,229.27
Direct additional appropriation.....	165,000.00
Total from the state.....	\$386,229.27
State institutions fund interest.....	\$16,542.92

From the University—

Students fees	\$139,948.83	
Dental infirmary	13,868.69	
Miscellaneous receipts, university.....	1,493.02	
School of agriculture, sales and fees.....	11,551.71	
Experiment station, sales.....	8,354.02	
Miscellaneous, farm	73.69	
Total from the university.....		\$175,289.96
Total receipts, year 1907-8.....		\$670,556.76
Total receipts including balance, August 1, 1907		\$745,120.02

DISBURSEMENTS.

	Pay Rolls.	Bills.
August	\$12,326.17	\$3,179.80
September	45,236.94	11,149.54
October	49,082.97	16,437.68
November	48,959.59	11,380.30
December	49,225.05	19,897.05
January	50,047.56	12,184.07
February	52,031.27	11,316.09
March	51,373.66	7,524.79
April	50,539.42	9,828.14
May	50,074.88	8,799.16
June	49,363.35	9,806.64
July	15,287.40	5,250.34
Total	\$523,548.26	\$126,753.60
Fees paid county treasurers by state auditor.....		\$139.44
Hatch bill, first quarterly payment for year 1907-8. (Transferred August 1, 1907 to separate account)....		3,750.00
Fuel		32,396.84
Pay roll		523,548.26
Total expenditures		\$686,588.14
Balance August 1, 1908.....		\$58,531.88

DISTRIBUTION OF BALANCE, AUGUST 1, 1908.

Morrill bill, year 1908-9.....		\$25,000.00
Nelson bill, year 1908-9.....		10,000.00
Revolving fund		2,800.00
State institutions fund, interest.....		16,542.92
23-100 of one mill revenue tax for year 1908-9.....		4,188.96
		\$58,531.88
Note.—23-100 of one mill tax paid after August 1, 1908...	\$26,709.51	\$58,531.88
University fees received after August 1, 1908.....	1,531.75	
Revolving fund	2,800.00	
	\$31,041.26	
June and July Bills, 1907-8, Paid after Aug. 1, 1907—		
June	\$8,707.63	
July	5,250.34	
Fuel	1,818.76	
	\$15,776.73	
		\$15,264.53
		\$43,267.35
Current expense auditor's balance, August 1, 1908.....	\$42,543.29	
Current expense auditor's balance, August 1, 1908, fuel fund	724.06	
	\$43,267.35	

CURRENT EXPENSES.

Summary of Disbursements by Department, Year 1906-1907.

	Salaries.	Bills.	Totals.
General University	\$41,299.75	\$16,498.62	\$57,798.37
Department of Botany	5,699.20	1,095.04	6,794.24

Department of Biology	7,500.00	2,083.92	9,583.92
School of Chemistry	17,135.00	8,183.79	25,318.79
Department of Physics	9,721.30	1,830.91	11,552.21
Department of English	8,985.00	118.14	9,103.14
Department of Greek	5,400.00	3.50	5,403.50
Department of Latin	5,800.00	.....	5,800.00
Department of German	8,350.00	13.98	8,363.98
Department of French	5,400.00	.25	5,400.25
Department of Scandinavian	2,000.00	11.80	2,011.80
Department of Mathematics	7,300.00	2.90	7,302.90
Department of Astronomy	2,300.00	15.40	2,315.40
Department of Political Science	8,835.00	34.85	8,869.85
Department of Geology	4,825.00	910.45	5,735.45
Department of Philosophy	4,912.50	42.43	4,954.93
Department of History	8,700.00	27.00	8,727.00
Department of Rhetoric	9,960.00	134.70	10,094.70
Department of Sociology	2,962.50	678.62	3,641.12
Department of Physical Culture—Men	2,864.99	108.60	2,973.59
Department of Physical Culture—Women ..	1,875.00	108.28	1,183.28
Department of Military Science	1,230.00	735.57	1,965.57
General Academic	3,288.74	148.58	3,437.32
College of Education	6,325.00	373.35	6,698.35
Total—Science, Literature and Art.....	\$182,668.98	\$33,160.68	\$215,829.66
General Engineering	\$8,629.61	\$179.07	\$8,808.68
Department of Electrical Engineering	6,250.00	2,969.95	9,219.95
Department of Mechanical Engineering	14,200.00	3,272.44	17,472.44
Department of Civil and Structural Engineering	6,500.00	490.38	6,990.38
Department of Drawing, Engineering	3,385.00	81.22	3,466.22
Total—Engineering Departments	\$38,964.61	\$6,993.06	\$45,957.67
School of Mines	\$6,340.00	\$4,352.96	\$10,692.96
Special appropriation (School of Mines Support	5,000.00	.....	5,000.00
Special appropriation (School of Mines Institute	4,500.00	.....	4,500.00
Total—School of Mines including special appropriations	\$15,840.00	\$4,352.96	\$20,192.96
College of Law	\$18,685.00	\$2,623.84	\$21,308.84
	Salaries.	Bills.	Totals.
General Medicine and Surgery.....	\$13,696.00	\$2,194.64	\$15,890.64
Department of Anatomy	4,300.00	1,335.18	5,635.18
Department of Bacteriology	6,903.21	2,182.23	9,085.44
Department of Physiology	5,267.00	2,347.94	7,614.94
Department of Histology	6,484.40	2,629.66	9,114.06
College of Dentistry	17,331.16	7,691.17	25,022.33
College of Pharmacy	4,901.00	874.04	5,775.04
College of Homeopathy	1,960.00	168.74	2,128.74
Free Dispensary	1,820.00	3,025.34	4,845.34
Total—Medical Departments	\$62,662.77	\$22,448.94	\$85,111.71
Total—University	\$318,821.36	\$69,579.48	\$388,400.84
School and Station	\$36,309.33	\$10,622.46	\$46,931.79
Division of Agriculture	14,483.66	5,108.72	19,592.38
Division of Animal Husbandry	7,350.34	7,990.79	15,341.13
Division of Farm Chemistry	7,480.82	1,665.61	9,146.43
Division of Dairy Husbandry	8,696.24	5,973.05	14,669.29
Division of Entomology	3,110.98	489.98	3,600.96
Division of Horticulture	8,889.04	972.84	9,861.88
Division of Veterinary	4,602.85	2,182.02	6,784.87
Total—Farm	\$90,923.26	\$35,005.47	\$125,928.73
Total—University and Farm	\$409,744.62	\$104,584.95	\$514,329.57
University current expense—salaries			\$318,821.36
University current expense—bills			69,579.48
Farm current expense—salaries			90,923.26
Farm current expense—bills			35,005.47
Grand total			\$514,329.57

CURRENT EXPENSE.

Summary of Disbursements by Departments, Year 1907-1908.

	Salaries.	Bills.	Totals.
General University	\$51,531.79	\$25,829.04	\$77,360.83
Department of Botany	6,465.00	3,512.21	9,977.21
Department of Biology	9,850.00	2,879.66	12,729.66
School of Chemistry.....	22,832.20	11,422.56	34,254.76
Department of Physics	13,210.00	1,698.29	14,908.29
Department of English	12,850.00	89.20	12,939.20
Department of Greek	6,300.00	67.81	6,367.81
Department of Latin	6,700.00	295.46	6,995.46
Department of German	9,975.00	13.44	9,988.44
Department of French	8,450.00	.....	8,450.00
Department of Scandinavian	4,200.00	187.09	4,387.09
Department of Mathematics	10,400.00	2.50	10,402.50
Department of Astronomy	3,225.00	46.13	3,271.13
Department of Political Science.....	12,075.00	924.41	12,999.41
Department of Geology	6,650.00	1,216.46	7,866.46
Department of Philosophy	8,225.00	1,098.37	9,323.37
Department of History	11,525.00	86.83	11,611.83
Department of Rhetoric	11,650.00	47.30	11,697.30
Department of Sociology	4,887.50	532.16	5,419.66
Department of Physical Culture—Men.....	4,000.04	1,028.96	5,029.00
Department of Physical Culture—Women...	2,050.00	116.19	2,166.19
Department of Military Science	1,416.00	291.30	1,707.30
General Academic	8,305.89	305.24	8,611.13
College of Education.....	8,710.00	841.76	9,551.76
Total—Science, Literature and Arts.....	\$245,483.42	\$52,532.37	\$298,015.79
General Engineering	\$17,882.50	\$1,179.99	\$19,062.49
Department of Electrical Engineering.....	8,060.00	2,155.76	10,215.76
Department of Mechanical Engineering.....	12,985.00	2,716.90	15,701.90
Department of Civil and Structural Engineering	8,500.00	301.49	8,801.49
Department of Drawing Engineering.....	5,000.00	52.70	5,052.70
Total Engineering Departments.....	\$52,427.50	\$6,406.84	\$58,834.34
School of Mines.....	\$10,320.00	\$5,257.99	\$15,577.99
Special appropriation (School of Mines Support)	5,000.00	.....	5,000.00
Special appropriation (School of Mines Instruction)	4,500.00	.....	4,500.00
Total School of Mines including special appropriations	\$19,820.00	\$5,257.99	\$25,077.99
College of Law.....	\$23,670.00	\$1,477.99	\$25,147.99
	Pay Roll.	Bills.	Totals.
General Medicine and Surgery.....	\$20,881.00	\$4,945.04	\$25,826.04
Department of Anatomy	6,520.00	2,082.16	8,602.16
Department of Bacteriology	11,088.63	3,375.05	14,463.68
Department of Physiology	6,450.00	2,913.65	9,363.65
Department of Histology	9,427.92	3,487.31	12,915.26
College of Dentistry	25,440.00	10,868.73	36,308.73
College of Pharmacy	6,065.00	2,086.08	8,151.08
College of Homeopathy	2,460.00	390.10	2,850.10
Free Dispensary	160.00	5.50	165.50
Total Medical Departments.....	\$88,492.55	\$30,153.62	\$118,646.17
Total—University	\$420,393.47	\$95,828.81	\$516,222.28
School and Station.....	\$44,635.85	\$9,680.95	\$54,316.80
Division of Agriculture	17,853.04	5,235.47	23,088.51
Division of Animal Husbandry.....	7,158.55	5,555.19	12,713.74
Division of Farm Chemistry	7,654.16	1,381.43	9,035.59
Division of Dairy Husbandry	8,965.17	5,857.27	14,822.44
Division of Entomology	1,925.00	468.11	2,393.11
Division of Horticulture	11,368.09	1,199.28	12,567.37
Division of Veterinary	3,594.93	1,547.09	5,142.02
Total—Farm	\$103,154.79	\$30,924.79	\$134,079.58
Total, University and Farm.....	\$523,548.26	\$126,753.60	\$650,301.86
University current expense, salaries			\$420,393.47
University current expense, bills			95,828.81
Farm current expense, salaries			103,154.79
Farm current expense, bills			30,924.79
Grand total			650,301.86

CURRENT EXPENSE, YEAR 1906-1907.

Disbursements by Expense Lists.

	University		Farm	
	Pay Roll.	Bills.	Pay Roll.	Bills.
August	\$4,903.06	.....	\$6,034.36	.....
September	28,330.58	\$4,758.61	6,436.68	\$2,446.97
October	28,761.75	8,863.20	8,243.82	3,127.47
November	28,708.28	5,631.21	9,209.72	4,280.39
December	28,718.83	9,203.80	8,382.42	5,058.73
January	28,945.18	5,630.09	8,565.35	3,073.89
February	29,203.14	7,494.36	8,557.14	1,369.88
March	31,341.01	4,513.94	8,633.06	2,127.93
April	31,107.69	8,157.85	6,592.44	4,211.88
May	32,030.89	5,400.15	6,738.65	2,914.33
June	31,432.43	5,206.49	6,963.94	1,699.53
July	5,838.52	4,719.78	6,559.68	4,694.47
	<u>\$309,321.36</u>	<u>69,579.48</u>	<u>\$90,923.26</u>	<u>\$35,005.47</u>
University, salaries			\$309,321.36	
University, bills		\$69,579.48		
University, fuel bills		<u>20,152.79</u>	<u>\$89,732.27</u>	
				\$399,053.63
Farm, salaries			\$90,923.26	
Farm, bills		\$35,005.47		
Farm, fuel bills		<u>12,437.67</u>	<u>\$47,443.14</u>	
				\$138,366.40
Total University and Farm pay roll and bills.....				\$537,420.03

CURRENT EXPENSE, YEAR 1907-1908.

Disbursements by Expense Lists.

	University		Farm	
	Pay Roll.	Bills.	Pay Roll.	Bills.
August	\$6,155.45	\$2,439.97	\$6,170.72	\$739.83
September	37,716.49	9,032.36	7,520.45	2,117.18
October	39,577.34	12,267.21	9,505.63	4,170.47
November	39,221.57	7,779.23	9,737.92	3,601.07
December	39,847.98	15,577.65	9,377.07	4,319.40
January	40,266.67	9,182.25	9,780.99	3,001.82
February	42,372.58	8,096.22	9,658.69	3,219.87
March	41,717.37	5,921.00	9,656.29	1,603.79
April	42,147.74	7,541.45	8,391.68	2,286.69
May	42,179.39	7,258.86	7,895.49	1,540.30
June	41,507.63	6,315.56	7,855.72	3,491.08
July	7,683.26	4,417.05	7,604.14	833.29
Totals	<u>\$420,393.47</u>	<u>\$95,828.81</u>	<u>\$103,154.79</u>	<u>\$30,924.79</u>
University, salaries			\$420,393.47	
University, bills		\$95,828.81		
University, fuel bills		<u>18,144.30</u>	<u>\$113,973.11</u>	
				\$534,366.58
Total University pay roll and bills.....				\$534,366.58
Farm, salaries			\$103,154.79	
Farm, bills		\$30,924.79		
Farm, fuel bills		<u>14,252.54</u>	<u>\$45,177.33</u>	
				\$148,332.12
Total Farm pay roll and bills.....				\$148,332.12
Total University and Farm pay roll and bills.....				\$682,698.70

CURRENT EXPENSE.

Statement of Receipts and Disbursements by Colleges for the Year Ending July 31, 1907.

	Receipts.	Disbursements.
General University	\$1,493.25	\$57,798.37
College of Science, Literature and the Arts.....	38,540.00	158,031.29
College of Engineering.....	23,637.00	45,957.67

School of Mines.....	4,463.00	10,692.96
School of Mines, special appropriations.....	.....	9,500.00
College of Law	25,912.00	21,308.84
College of Medicine and Surgery	18,319.25	51,185.60
College of Dentistry	32,820.65	25,022.33
College of Pharmacy	3,766.90	5,775.04
College of Homeopathy	958.00	3,128.74
School of Agriculture	10,478.61	62,964.37
Experiment Station	8,818.22	62,964.36
Totals	\$169,206.88	\$514,329.57

CURRENT EXPENSE.

Statement of Receipts and Disbursements by Colleges for the Year Ending July 31, 1908.

	Receipts.	Disbursements.
General University	\$1,393.02	\$77,360.83
College of Science, Literature and the Arts.....	42,390.08	220,654.96
College of Engineering.....	22,344.75	58,834.34
School of Mines	4,526.50	15,577.99
School of Mines, special appropriations .....	.....	9,500.00
College of Law	25,324.00	25,147.99
College of Medicine and Surgery.....	16,546.75	71,336.26
College of Homeopathy	391.25	2,850.10
College of Dentistry	38,051.69	36,308.73
College of Pharmacy	4,342.50	8,151.08
School of Agriculture.....	11,588.56	67,039.79
Experiment Station	8,390.86	67,039.79
Totals	\$175,289.96	\$650,301.86

CURRENT EXPENSE.

Distribution of Accounts, 1906-1907.

	University.	Farm.
Wages of employes.....	\$842.89	\$284.60
Fuel, light and water.....	5,378.01	428.11
Freight and express.....	2,507.12	701.88
Postage	1,601.25	1,173.78
Library	4,749.34	198.07
Stationery and printing	7,098.39	1,911.42
Furniture and fixtures	1,285.02	389.85
Scientific apparatus and instruments.....	1,633.48	312.68
Building equipment	3,506.73	3,696.87
Live stock	124.00	1,701.94
Tools, implements and machinery.....	229.15	1,016.91
Feed	1,249.79	7,221.01
Seeds and plants.....	186.34	377.76
Supplies for instruction and illustration.....	30,236.97	9,636.42
Repairs	1,392.82	1,636.91
Traveling expenses	1,150.95	1,090.63
Petty bills	827.14	183.13
Taxes, rents and ads.....	2,815.97	1,456.76
Publications	408.40	576.90
Contingent expenses	1,946.51	1,009.84
Museum	409.21	.....
Total fuel bills.....	\$69,579.48	\$35,005.47
Total bills	20,152.79	12,437.67
Total salaries	\$89,732.27	\$47,443.14
Total salaries	318,821.36	90,923.26

THE TWO STATEMENTS ABOVE COMBINED.

Salaries—Total .....	.....	\$409,744.62
Wages of employes.....	\$1,127.49	
Fuel, light and water.....	5,806.12	
Freight and express.....	3,209.00	
Postage	2,775.03	
Library	4,947.41	
Stationery and printing.....	9,009.81	
Furniture and fixtures	1,674.87	
Scientific apparatus and instruments.....	1,946.16	
Building equipment	7,203.60	
Live stock	1,825.94	

Tools, implements and machinery.....	1,246.06
Feed	8,470.80
Seeds and plants.....	564.10
Supplies for instruction and illustration.....	39,873.39
Repairs	3,029.73
Traveling expenses	2,241.58
Petty bills	1,010.27
Taxes, rents and ads.....	4,272.73
Publications	985.30
Contingent expenses	2,956.35
Museum	409.21

Total bills for supplies.....	\$104,584.95
Fuel bills	32,590.46

Total	\$137,175.41
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Grand total, University and Farm, including fuel bills.	\$546,920.03
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CURRENT EXPENSE.

Distribution of Accounts, Year 1907-1908.

	University.	Farm.
Wages of employes.....	\$874.46	\$310.62
Fuel, light and water.....	7,983.61	128.02
Freight and express.....	2,862.27	913.62
Postage	2,112.00	852.00
Library	8,387.66	760.56
Stationery and printing.....	8,954.61	2,471.74
Furniture and fixtures	2,639.83	927.65
Scientific apparatus and instruments.....	5,887.93	372.85
Equipment of building	2,391.66	1,134.41
Live stock .....	.....	145.00
Tools, implements and machinery.....	686.82	1,527.76
Feed	458.40	7,981.30
Seeds and plants.....	375.22	303.92
Supplies for instruction and illustration.....	41,280.77	9,486.26
Repairs	1,059.03	513.39
Traveling expenses	1,200.00	1,184.60
Petty supplies	826.00	153.37
Museum	417.37	.....
Taxes, rents and ads.....	3,505.29	573.53
Publications	269.94	32.75
Contingent expense	3,655.89	1,151.44
	\$95,828.81	\$30,924.79
Total fuel bills.....	18,144.30	14,252.54
Total bills	\$113,973.11	\$45,177.33
Total salaries	\$120,393.47	\$103,154.79

THE TWO STATEMENTS ABOVE COMBINED.

Salaries—Total .....	.....	\$523,548.26
Wages of employes.....	\$1,185.08	
Fuel, light and water.....	8,111.63	
Freight and express.....	3,775.89	
Postage	2,964.00	
Library	9,148.22	
Stationery and printing.....	11,426.35	
Furniture and fixtures.....	3,567.48	
Scientific apparatus and instruments.....	6,260.78	
Equipment of building	3,526.07	
Live stock	145.00	
Tools, implements and machinery.....	2,214.58	
Feed	8,439.70	
Seeds and plants	679.14	
Supplies for instruction and illustration.....	50,767.03	
Repairs	1,572.47	
Traveling expenses	2,384.60	
Petty supplies	979.37	
Museum	417.37	
Taxes, rents and ads.....	4,078.82	
Publications	302.69	
Contingent expenses	4,807.33	
Total bills for supplies.....	\$126,753.60	
Total fuel bills.....	32,396.84	
Total bills		\$159,150.44
Grand total, University and Farm, including fuel bills.		\$682,698.70

UNIVERSITY CAMPUS EXTENSION FUND.

Year 1907-8, Ending August 1, 1908.

RECEIPTS.

From sale of certificates of indebtedness.....	\$450,000.00
Interest	487.50
Sale of house	1,000.00
Total receipts	<u>\$451,487.50</u>

EXPENDITURES.

Land purchased by condemnation.....	\$145,568.95
Land purchased by agreement	80,428.25
Printing, advertising, etc	1,146.94
Attorney's fees	1,500.00
Services of Appraisers and Commissioners	1,936.25
Interest on certificates of indebtedness	5,625.00
Traveling expenses advanced to engineering building committee	500.00
Prizes awarded for two best plans	1,500.00
Survey of campus and plans	632.89
Miscellaneous expenses	123.27
Total expenditures	<u>\$238,961.55</u>
Auditor's balance, August 1, 1908.....	<u>\$212,525.95</u>

LANDS SCHOOL OF AGRICULTURE.

Appropriation, year 1908	\$50,000.00
Appropriation, year 1909	26,000.00
Total	<u>\$76,000.00</u>
Purchased from Annie L. Hendrickson, one hundred forty-six and 371-300 acres of land in Section 21, Township 29, Range 23 for.....	\$72,761.33
Balance August 1, 1908.....	<u>\$3,238.67</u>

UNIVERSITY CAMPUS EXTENSION FUND CERTIFICATE PRINCIPAL AND INTEREST.

Certificate No.	Interest.	Principal.	Due.	Fund From Which to Be Drawn.	To Whom to Be Made Payable.
1 to 8, inclusive.....	\$2,250.00	.....	Jan. 10, 1908.	Campus Fund.....	Minn. L. & T. Co.
9	1,125.00	.....	Mar. 19, 1908.	Campus Fund.....	State of Minnesota.
1 to 8, inclusive.....	2,250.00	.....	July 10, 1908.	Campus Fund.....	Minn. L. & T. Co.
1 and 2 .....	.....	\$25,000.00	July 10, 1908.	Tax Fund.....	Minn. L. & T. Co.
19 to 69, inclusive.....	9,000.00	.....	Aug. 1, 1908.	Campus Fund.....	Minn. L. & T. Co.
9	1,125.00	.....	Sept. 19, 1908.	Campus Fund.....	State of Minnesota.
3 to 8, inclusive.....	1,687.50	.....	Jan. 10, 1909.	Campus Fund.....	Minn. L. & T. Co.
10 to 69, inclusive.....	6,750.00	.....	Feb. 1, 1909.	Campus Fund.....	Minn. L. & T. Co.
9	1,125.00	.....	Mar. 19, 1909.	Campus Fund.....	State of Minnesota.
3 to 8, inclusive.....	1,687.50	.....	July 10, 1909.	Campus Fund.....	Minn. L. & T. Co.
3 and 4 .....	.....	25,000.00	July 10, 1909.	Tax Fund.....	Minn. L. & T. Co.
10 to 69, inclusive.....	6,750.00	.....	Aug. 1, 1909.	Campus Fund.....	Minn. L. & T. Co.
10 to 29, inclusive.....	.....	100,000.00	Aug. 1, 1909.	Tax Fund.....	Minn. L. & T. Co.
9	1,125.00	.....	Sept. 19, 1909.	Campus Fund.....	State of Minnesota.
9 .....	.....	50,000.00	Sept. 19, 1909.	Tax Fund.....	State of Minnesota.
5 to 8, inclusive.....	1,125.00	.....	Jan. 10, 1910.	Campus Fund.....	Minn. L. & T. Co.
30 to 69, inclusive.....	4,500.00	.....	Feb. 1, 1910.	Campus Fund.....	Minn. L. & T. Co.
5 to 8, inclusive.....	1,125.00	.....	July 10, 1910.	Campus Fund.....	Minn. L. & T. Co.
5 and 6 .....	.....	25,000.00	July 10, 1910.	Tax Fund.....	Minn. L. & T. Co.
30 to 69, inclusive.....	4,500.00	.....	Aug. 1, 1910.	Campus Fund.....	Minn. L. & T. Co.
30 to 49, inclusive.....	.....	100,000.00	Aug. 1, 1910.	Tax Fund.....	Minn. L. & T. Co.
7 and 8, inclusive.....	562.50	.....	Jan. 10, 1911.	Campus Fund.....	Minn. L. & T. Co.
50 to 69, inclusive.....	2,250.00	.....	Feb. 1, 1911.	Campus Fund.....	Minn. L. & T. Co.
7 and 8	562.50	.....	July 10, 1911.	Campus Fund.....	Minn. L. & T. Co.
7 and 8 .....	.....	25,000.00	July 10, 1911.	Tax Fund.....	Minn. L. & T. Co.
50 to 69, inclusive.....	2,250.00	.....	Aug. 1, 1911.	Campus Fund.....	Minn. L. & T. Co.
50 to 69, inclusive.....	.....	100,000.00	Aug. 1, 1911.	Tax Fund.....	Minn. L. & T. Co.
50 to 69, inclusive.....	\$51,750.00	\$450,000.00			

SPECIAL APPROPRIATIONS, YEAR 1906-1907.

REPAIRS, UNIVERSITY.

Balance August 1, 1908.....	\$1,002.02	
New appropriation for year 1906-7.....	6,666.67	
New appropriation for year 1907-8.....	10,000.00	
Receipts, February 29, 1908.....	4.28	
Total receipts		\$20,672.97
Expended during year 1906-7.....	\$7,823.29	
Expended during year 1907-8.....	12,503.63	
Total expenditures		20,326.92
Balance July 31, 1908.....		\$346.05

REPAIRS, FARM.

Balance August 1, 1906.....	\$643.91	
New appropriation for year 1906-7.....	3,333.33	
New appropriation for year 1907-8.....	5,000.00	
Total receipts		\$8,977.24
Expended during year 1906-7.....	\$3,110.53	
Expended during year 1907-8.....	4,212.65	
Total expenditures		7,323.18
Balance July 31, 1908.....		\$1,654.06

UNIVERSITY CAMPUS IMPROVEMENT.

Balance August 1, 1906.....	\$369.83	
New appropriation for year 1906-7.....	4,000.00	
New appropriation for year 1907-8.....	3,000.00	
Transferred from University main building fund.....	697.68	
Total receipts		\$8,067.51
Expended during year 1906-7.....	\$4,346.49	
Expended during year 1907-8.....	3,527.60	
Total expenditures		7,874.09
Balance July 31, 1908.....		\$193.42

CAMPUS REPAIRS, SCHOOL OF AGRICULTURE.

Balance August 1, 1906.....	\$247.23	
New appropriation for year 1906-7.....	500.00	
New appropriation for year 1907-8.....	500.00	
Total receipts		\$1,247.23
Expended during year 1906-7.....	\$455.87	
Expended during year 1907-8.....	787.01	
Total expenditures		\$1,242.88
Balance July 31, 1908.....		\$4.35

LIBRARY.

Balance August 1, 1906.....	\$2,590.09	
New appropriation for year 1906-7.....	5,000.00	
New appropriation for year 1907-8.....	10,000.00	
Total receipts		\$17,590.09
Expended during year 1906-7.....	\$6,097.77	
Expended during year 1907-8.....	7,854.12	
Total expenditures		13,951.89
Balance July 31, 1908.....		\$3,638.20

UNIVERSITY PERIODICALS.

Balance August 1, 1906.....	\$171.99	
New appropriation for year 1906-7.....	1,500.00	
New appropriation for year 1907-8.....	2,000.00	
Total receipts		\$3,671.99
Expended during year 1906-7.....	\$954.88	
Expended during year 1907-8.....	2,392.14	
Total expenditures		3,347.02
Balance July 31, 1908.....		\$324.97

CATALOGING LIBRARY.

New appropriation for year 1907-8.....	\$2,500.00	
Expenditures during year 1907-8.....	2,406.62	
Balance July 31, 1908.....		\$93.38

LAW LIBRARY.

New appropriation for year 1907-8.....	\$5,000.00	
Expended during the year 1907-8.....	2,497.48	
Balance July 31, 1908.....		\$2,502.52

HATCH FUND, SCHOOL OF AGRICULTURE.

Received from the United States government for year 1907-8, four quarterly payments of \$3,750 each.....	\$15,000.00	
Expenditures during the year 1907-8.....	13,421.45	
Balance July 31, 1908.....		\$1,578.55

ADAMS FUND, SCHOOL OF AGRICULTURE.

Received from the United States government in four quarterly payments of each \$2,250, less \$356.92 unexpended balance of previous year.....	\$3,643.08	
Expenditures during the year 1907-8.....	8,450.82	
Balance July 31, 1908.....		\$192.26

RENTS, UNIVERSITY CAMPUS BUILDINGS.

Received during the year 1907-8.....	\$2,014.03	
Expenditures during the year 1907-8.....	955.85	
Balance July 31, 1908.....		\$1,058.18

TAXES, UNIVERSITY CAMPUS EXTENSION.

March receipts, year 1908.....	\$27,495.34	
April receipts, year 1908.....	9,005.92	
June receipts, year 1908.....	47,055.02	
July receipts, year 1908.....	30,964.20	
Total receipts	\$114,520.48	
Redeemed Board of Regents' certificates of indebtedness, Nos. 1 and 2, issued for campus extension.....	\$25,000.00	
Balance July 31, 1908.....		\$89,520.48

WATER MAINS, UNIVERSITY.

New appropriation available August 1, 1907.....	\$5,500.00	
Expended during the year 1907-8.....	4,330.95	
Balance July 31, 1908.....		\$1,169.05

SEWERS, SCHOOL OF AGRICULTURE.

Appropriation available August 1, 1907.....	\$12,000.00	
Expenditures during the year 1907-8.....	11,579.96	
Balance July 31, 1908.....		\$420.04

MILITARY INSTRUCTION SCHOOL OF AGRICULTURE.

Appropriation for year 1907-8.....	\$6,000.00	
Expended during the year 1907-8.....	3,665.27	
Balance July 31, 1908.....		\$2,334.73

UNIVERSITY MAIN BUILDING.

Balance August 1, 1906.....	\$189,255.85	
New appropriation	150,000.00	
Total receipts		\$339,255.85
Expended during year 1906-7.....	\$220,996.83	
Expended during year 1907-8.....	117,460.43	
Total expenditures		\$338,457.26
Balance		\$798.59
Balance transferred to University main building equipment fund		798.59

UNIVERSITY MAIN BUILDING EQUIPMENT.

Balance August 1, 1906.....	\$38,456.00	
Transferred from University main building fund.....	798.59	
Total receipts		\$39,254.59
Expended during year 1906-7.....	\$12,636.03	
Expended during year 1907-8.....	24,466.82	
Total expenditures		37,102.85
Balance July 31, 1908.....		\$2,151.74

BACTERIOLOGICAL LABORATORY.

Balance August 1, 1906.....		\$31,550.53
Expended during year 1906-7.....	\$28,176.11	
Expended during year 1907-8.....	3,374.42	
Total expenditures		31,550.53

BACTERIOLOGICAL LABORATORY EQUIPMENT.

Balance August 1, 1906.....	\$24,820.26	
Transferred from bacteriological laboratory building fund...	270.22	
Total receipts		\$25,090.48
Expended during year 1906-7.....	\$18,408.80	
Expended during year 1907-8.....	6,356.98	
Total expenditures		24,765.78
Balance July 31, 1908.....		\$324.70

AGRICULTURAL COLLEGE BUILDINGS.

Balance August 1, 1906.....	\$180,838.34	
Receipts for year 1906-7.....	3,814.34	
Total receipts		\$184,652.68
Expended during year 1906-7.....	\$144,792.97	
Transferred to board of regents, school of agriculture land funds	2,475.97	
Transferred to school of agriculture main building equipment fund	3,042.66	
Expended during year 1907-8.....	34,341.08	
Total expenditures		\$184,652.68

SCHOOL OF AGRICULTURE MAIN BUILDING EQUIPMENT.

Balance August 1, 1906.....	\$42,429.35	
Transferred from building fund.....	3,042.66	
Total receipts		\$45,472.01
Expended during year 1906-7.....	\$15,114.12	
Expended during year 1907-8.....	28,500.96	
Total expenditures		43,615.08
Balance July 31, 1908.....		\$1,856.93

LANDS SCHOOL OF AGRICULTURE.

New appropriation August 1, 1907.....	\$50,000.00	
New appropriation available August 1, 1908.....	26,000.00	
		<hr/>
Total receipts		\$76,000.00
Expenditures during year 1907-8.....		72,761.33
		<hr/>
Balance August 1, 1908.....		\$3,238.67

BOARD OF REGENTS SCHOOL OF AGRICULTURE LANDS.

Receipts from sale of lots in Regents Addition.....	\$2,925.97	
Expended during year 1906-7.....	8.00	
		<hr/>
Balance July 31, 1908.....		\$2,917.97

FIRE LOSS MAIN BUILDING—CONTENTS.

Balance August 1, 1906.....		\$589.36
Expended during year 1906-7.....	\$198.23	
Expended during year 1907-8.....	391.13	
		<hr/>
Total expenditures		589.36

FIRE LOSS MECHANIC ARTS BUILDING—BUILDING.

Balance August 1, 1906.....	\$4.94	
Expenditures during years 1906-7 and 1907-8.....		
		<hr/>
Balance July 31, 1908.....		\$4.94
Cancelled by State Auditor August 1, 1908.....		4.94

FIRE LOSS MECHANIC ARTS BUILDING—CONTENTS.

Balance August 1, 1906.....	\$72.09	
Expenditures during years 1906-7 and 1907-8.....		
		<hr/>
Balance July 31, 1908.....		\$72.09

MEDICAL BUILDING INSURANCE.

Balance August 1, 1906.....	\$403.92	
Expenditures during years 1906-7 and 1907-8.....		
		<hr/>
Balance July 31, 1908.....		\$403.92

ANATOMY BUILDING INSURANCE.

Balance August 1, 1906.....	\$357.32	
Expenditures during year 1906-7.....		357.32

FIRE LOSS BARN SCHOOL OF AGRICULTURE.

Insurance receipts during year 1906-7.....	\$287.00	
Expended during year 1906-7.....	278.25	
		<hr/>
Balance July 31, 1908.....		\$8.75

STATE UNIVERSITY ENTOMOLOGIST.

New appropriation for year 1907-8.....	\$2,000.00	
Expended during year 1907-8.....	1,987.88	
		<hr/>
Balance July 31, 1908		\$12.12

DAIRY BARN, SCHOOL OF AGRICULTURE.

Appropriation available August 1, 1907.....	\$15,000.00	
Expended during year 1907-8.....	12,607.44	
		<hr/>
Balance July 31, 1908		\$2,392.56

HEATING PLANT AND HALL, SCHOOL OF AGRICULTURE.

Appropriation available August 1, 1907.....	\$22,000.00	
Receipts	149.55	
		<hr/>
Total receipts	\$22,149.55	
Expended during year 1907-8.....	20,952.66	
		<hr/>
Balance July 31, 1908		\$1,196.89

HORTICULTURAL CROPS SCHOOL OF AGRICULTURE.

Appropriation for year 1907-8.....	\$1,000.00	
Expended during year 1907-8.....	461.23	
Balance July 31, 1908.....		\$538.77

PLANT BREEDING, SCHOOL OF AGRICULTURE.

Balance August 1, 1906	\$1,741.27	
New appropriation for year 1906-7.....	4,000.00	
New appropriation for year 1907-8.....	3,500.00	
Total receipts		\$9,241.27
Expended during year 1906-7.....	\$3,799.86	
Expended during year 1907-8.....	4,184.98	
Total expenditures		7,984.84
Balance July 31, 1908		\$1,256.43

WATER TOWER AND TANK, SCHOOL OF AGRICULTURE.

Balance August 1, 1906.....	\$5,500.00	
Expended during the year 1906-7.....	4,559.96	
Balance July 31, 1908.....		\$940.04

REEL AND HOSE, SCHOOL OF AGRICULTURE.

Balance August 1, 1906.....	\$445.00	
Expended during year 1906-7.....	441.80	
Balance July 31, 1908.....	\$3.20	
Cancelled by state auditor August 1, 1908.....	3.20	

SOIL INVESTIGATION, SCHOOL OF AGRICULTURE.

Balance August 1, 1906.....	\$249.36	
New appropriation for year 1906-7.....	1,000.00	
New appropriation for year 1907-8.....	1,000.00	
Total receipts		\$2,249.36
Expended during year 1906-7.....	\$1,160.88	
Expended during year 1907-8.....	472.36	
Total expenditures		\$1,633.24
Balance July 31, 1908.....		\$616.12

LIVE STOCK, SCHOOL OF AGRICULTURE.

Balance August 1, 1906.....	\$1,733.20	
New appropriation for year 1906-7.....	4,500.00	
Receipts year 1906-7	458.89	
New appropriations for year 1907-8.....	4,500.00	
Receipts year 1907-8	20.84	
Total receipts		\$11,212.93
Expended during year 1906-7.....	\$4,752.26	
Expended during year 1907-8.....	3,981.85	
Total expenditures		8,734.11
Balance July 31, 1908		\$2,478.82

INSECTARY, SCHOOL OF AGRICULTURE.

New appropriation August 1, 1906.....	\$2,500.00	
Expended during year 1906-7.....	2,479.02	
Balance July 31, 1908.....	\$20.98	
Cancelled by state auditor August 1, 1908.....	20.98	

MACHINERY, SCHOOL OF MINES.

Balance August 1, 1906.....	\$169.34	
New appropriation for year 1906-7.....	2,000.00	
Total receipts		\$2,169.34
Expended during year 1906-7.....	\$1,810.38	
Expended during year 1907-8.....	96.60	
Total expenditures		\$1,906.98
Balance July 31, 1908		\$262.36

SCHOOL OF MINES SUPPORT.

Appropriation for year 1906-7.....	\$5,000.00	
Appropriation for year 1907-8.....	5,000.00	
Total receipts		\$10,000.00
Expended during year 1906-7.....	\$5,000.00	
Expended during year 1907-8.....	5,000.00	
Total expenditures		\$10,000.00

SCHOOL OF MINES INSTRUCTIONS.

Appropriations for year 1906-7.....	\$4,500.00	
Appropriations for year 1907-8.....	4,500.00	
Total receipts		\$9,000.00
Expended during year 1906-7	\$4,500.00	
Expended during year 1907-8.....	4,500.00	
Total expenditures		\$9,000.00

KITCHEN, SCHOOL OF AGRICULTURE.

New appropriation August 1, 1906.....	\$10,000.00	
Receipts	35.20	
Total receipts		\$10,035.20
Expended during year 1906-7.....		10,035.20

ANIMAL HOUSE PHYSIOLOGY.

Balance August 1, 1906.....	\$2,500.00	
Expenditures during years 1906-7 and 1907-8.....		
Balance July 31, 1908		\$2,500.00

ENGINEERING DEPARTMENT.

Balance August 1, 1906		\$8,557.69
Expended during year 1906-7	\$7,869.93	
Expended during year 1907-8.....	622.74	
Total expenditures		8,492.67
Balance July 31, 1908		\$65.02

AGRICULTURAL CHEMISTRY BUILDING AND EQUIPMENT.

Balance August 1, 1906	\$14.96	
Expended during year 1907-8.....	14.85	
Balance July 31, 1908		\$0.11
Cancelled by state auditor August 1, 1908.....		.11

MACHINERY BUILDING.

Balance August 1, 1906.....	\$284.66	
Expended during years 1906-7 and 1907-8.....		
Balance July 31, 1908		\$284.66

BOYS' DORMITORY FARM.

Balance August 1, 1906	\$8.98	..
Expenditures during years 1906-7 and 1907-8.....		
Balance July 31, 1908		\$8.98
Cancelled by state auditor August 1, 1908.....		\$8.98

FRUIT BREEDING FARM.

Receipts.

Appropriation year 1907	\$16,000.00
Appropriation available for maintenance August 1, 1908.....	2,000.00
Total	<u>\$18,000.00</u>

Expenditures.

Land	\$8,185.05	
House and cellar	3,543.37	
Salaries and wages	1,473.06	
Farm implements	342.86	
Live stock	225.00	
Feed	234.39	
Trees, plants and seeds.....	487.76	
Fuel	22.05	
Survey	39.50	
Lumber	397.49	
Miscellaneous expense	232.22	
Total expenditures		<u>\$15,182.75</u>
Balance August 1, 1908		<u>\$2,817.25</u>

CROOKSTON SUPPORT.

Balance August 1, 1906.....	\$1,607.87	
New appropriation for year 1906-7	8,000.00	
Receipts during year 1906-7	1,456.29	
New appropriation for year 1907-8	8,000.00	
Receipts during year 1907-8.....	3,489.18	
Total receipts		\$22,553.34
Expended during year 1906-7	\$10,277.50	
Expended during year 1907-8.....	9,744.22	
Total expenditures		<u>\$20,021.72</u>
Balance July 31, 1908		<u>\$2,531.62</u>

CROOKSTON SCHOOL BUILDING EQUIPMENT.

Balance August 1, 1906		\$1,362.73
Expended during year 1906-7	\$1,095.33	
Expended during year 1907-8.....	46.24	
Total expenditures		<u>1,141.57</u>
Balance July 31, 1908		<u>\$221.16</u>

CROOKSTON NEW DWELLING HOUSE, SHED AND BARN.

New appropriation for year 1906.....	\$5,000.00	
New appropriation for year 1907.....	1,000.00	
Total receipts		\$6,000.00
Expended during year 1906-7.....	\$25.00	
Expended during year 1907	5,975.00	
Total expenditures	<u>6,000.00</u>	

CROOKSTON DRAINAGE.

Balance August 1, 1906		\$7,695.34
Expended during year 1906-7.....	\$1,871.85	
Expended during year 1907-8.....	4,959.40	
Total expenditures		<u>6,831.25</u>
Balance July 31, 1908		<u>\$864.09</u>

CROOKSTON STOCK.

Balance August 1, 1906	\$302.10
Expended during year 1906-7.....	302.10

CROOKSTON AGRICULTURAL SCHOOL SUPPORT.

Appropriation for year 1907-8.....	\$4,000.00	
Receipts	229.68	
Total receipts		\$4,229.68
Expended during year 1907-8.....		3,635.42
Balance July 31, 1908		\$594.26

CROOKSTON AGRICULTURAL SCHOOL DORMITORY AND EQUIPMENT.

Appropriation available August 1, 1907.....	\$50,000.00	
Expended during year 1907-8.....	34,732.95	
Balance July 31, 1908		\$15,267.05

GRAND RAPIDS SUPPORT.

Balance August 1, 1906	\$1,831.54	
New appropriation for year 1906-7.....	4,000.00	
Substation receipts year 1906-7	1,146.88	
New appropriation for year 1907-8.....	5,000.00	
Substation receipts for year 1907-8.....	2,614.22	
Total receipts		\$14,592.64
Expended during year 1906-7.....	\$6,418.57	
Expended during year 1907-8.....	7,298.21	
Total expenditures		13,716.78
Balance July 31, 1908		\$875.86

GRAND RAPIDS DAIRY BUILDING.

Balance August 1, 1906	\$56.30	
New appropriation for year 1906-7.....	3,000.00	
Total receipts		\$3,056.30
Expended during year 1906-7		2,992.73
Balance July 31, 1908		\$63.57

ITASCA STATE PARK.

New appropriation available August 1, 1907.....	\$2,000.00	
Expended during year 1907-8.....	1,523.47	
Balance July 31, 1908		\$476.53

OFFICERS' BAND CORPS.

Balance August 1, 1906.....	\$30.37	
Expended during year 1906-7.....	30.37	

VETERINARY AND LIVE STOCK BUILDING.

Balance August 1, 1906		\$196.77
Expended during year 1906-7.....	\$93.90	
Expended during year 1907-8.....	102.87	
Total expenditures		196.77

NEW PLANT BUILDING—BOTANY.

Balance August 1, 1906.....		\$9,576.11
Expended during year 1906-7.....	\$9,403.02	
Transferred to Plant building equipment.....	172.00	
Total expenditures		9,575.02
Balance July 31, 1908.....		\$1.09
Cancelled by state auditor August 1, 1908.....		1.09

NEW PLANT BUILDING EQUIPMENT—BOTANY.

Balance August 1, 1906	\$250.00	
Transferred from building fund	172.00	
Total receipts		\$422.00
Expended during year 1906-7.....		422.00

POWER HOUSE UNIVERSITY BUILDING.

Balance August 1, 1906.....	\$19,711.77	
Transferred from engineering department fund.....	119.21	
Total receipts		\$19,830.98
Expended during year 1906-7.....	\$14,970.04	
Expended during year 1907-8.....	4,860.94	
Total expenditures		\$19,830.98

JOHN LUNDGREN CLAIM.

New appropriation year 1907		\$318.00
Expended during year 1907.....	318.00	

ELLIOTT HOSPITAL BUILDING FUND.

April 8, 1907, gift from the Elliott estate.....	\$113,000.00	
Interest to August 1, 1908.....	2,811.83	
Total receipts		\$115,811.83
Expended May 14, 1908, architect's services.....		500.00
Balance August 1, 1908		\$115,311.83

ELLIOTT HOSPITAL SITE.

Subscriptions year 1907-8.....	\$37,500.00	
Interest to August 1, 1908	\$739.23	
Total receipts		\$38,239.23
Expended for land, new campus, purchased by condemnation		35,517.70
Balance August 1, 1908		\$2,721.53

THE GEOLOGICAL AND NATURAL HISTORY SURVEY.

FINANCIAL STATEMENT FOR THE BIENNIAL PERIOD COMMENCING AUGUST 1, 1906, AND ENDING JULY 31, 1908. FOR THE YEAR ENDING JULY 31, 1907.

RECEIPTS.

Balance on hand August 1, 1906.....		\$33,339.43
May 13. To sale of books on forestry (experiment station)	\$237.08	
May 13. To sale of geological survey reports (library).....	21.00	
July 17. To sale of books on forestry (station).....	7.25	
Total receipts		\$33,604.76

DISBURSEMENTS.

August expense list.....	\$841.75	
September expense list.....	255.54	
October expense list.....	784.92	
November expense list.....	479.13	
December expense list.....	289.78	
January expense list.....	290.59	
February expense list.....	349.07	
March expense list.....	800.08	
April and May expense list.....	294.17	
June expense list.....	166.00	
July expense list.....	493.97	
Balance July 31, 1907.....		\$28,559.76

FOR THE YEAR COMMENCING AUGUST 1, 1907, AND ENDING JULY 31, 1908.

RECEIPTS.

1907.		
Balance on hand August 1, 1907.....		\$28,559.76
Sept. 4. To sale of survey report, general library.....	\$18.00	
Sept. 4. To refund, transfer from soil inspection fund.....	8.58	
Sept. 4. To Edward T., Oliver T., and Hilda Thorson, balance due on contract.....	1,728.16	
Sept. 4. To St. Anthony Falls Bank, interest on daily balances	14.36	
Nov. 23. To Ella M. Cook, interest and penalty on land sale	68.77	
Dec. 31. To sale of survey reports, general library.....	12.15	

1908.		
Mar. 17.	To sale of reports, Clements	22.00
April 20.	To sale of books, Clements	12.00
May 26.	To sale of books, Clements	10.20
July 3.	To sale of reports, Clements	28.40
July 8.	To sale of survey reports, general library.....	13.85
		<hr/>
		1,936.47
Total receipts		<hr/>
		\$30,496.23

DISBURSEMENTS.

August expense list.....	\$378.00	
September expense list.....	628.63	
October expense list.....	694.97	
November expense list.....	981.30	
December expense list.....	340.22	
January expense list.....	660.34	
February expense list.....	570.14	
March expense list.....	500.73	
April expense list.....	445.85	
May expense list.....	851.93	
June expense list.....	1,037.31	
	<hr/>	7,089.42
Balance July 31, 1908.....		<hr/>
		\$23,406.81

Note: The following amounts are still outstanding on contracts, besides interest on same.

est on same.	
Severt Johnson	\$95.20
Henry Olson	294.00
R. Meder	170.00
Frank E. Millard.....	265.00
Ella M. Cook.....	960.00
E. A. Smith.....	534.00
	<hr/>
	\$2,318.20

TRUST FUNDS.

THE GILFILLAN TRUST FUND.

This is a fund of \$50,000, the gift of the Hon. John B. Gilfillan of Minneapolis, to the University of Minnesota, the income of which shall be at the disposal of its Board of Regents, either in the form of a **gift** or of a **temporary loan** to the young men and women of Minnesota: They must be of good moral character, of temperate and industrious habits, and evince a taste and aptitude for study to entitle them to the benefits of this fund.

The fund is invested in 4 per cent "Sioux R. R. bonds," the income of which is \$2,000 per annum, payable semi-annually. This income is loaned to students in amounts not exceeding \$200 to any one person, annually at 5 per cent.

Commencing in February, 1902, 130 students have received aid from this fund, of which 28 were women and 102 were men.

Down to the close of the fiscal year 1906:

- 19 persons have paid their loans in full,—both principal and interest.
- 18 persons have paid nothing,—neither principal nor interest.
- 24 persons have paid in full the interest due.
- 7 persons have paid interest in full and a part of the principal.
- 18 persons have paid trifling sums.
- 2 persons have received gifts.

—
88 persons are included in the above classification.

The first interest will be due during the present year on loans made in 1906-7, so that it is too early to report on loans made since 1906.

AMOUNTS LOANED TO STUDENTS AND RECEIVED FROM STUDENTS.

	Loans.	Receipts.
During the fiscal year 1902.....	\$980.00	\$25.42
During the fiscal year 1903.....	1,410.00	137.75
During the fiscal year 1904.....	1,605.00	104.39
During the fiscal year 1905.....	3,370.00	442.75
During the fiscal year 1906.....	2,486.00	708.02
During the fiscal year 1907.....	3,161.00	1,378.46
During the fiscal year 1908.....	3,183.00	643.46

FINANCIAL STATEMENT FOR THE FISCAL YEAR ENDING JULY 31, 1907.

RECEIPTS.

Balance on hand August 1, 1906.....		\$1,431.79
Interest on bonds, 1907.....	\$2,000.00	
Receipts from students.....	1,378.46	
	<hr/>	<hr/>
Total receipts		\$3,378.46
		<hr/>
		\$4,810.25

DISBURSEMENTS.

Loans to students, 1906-7.....	\$2,911.00	
Gifts to students,, 1906-7.....	250.00	
	<hr/>	<hr/>
		3,161.00
		<hr/>
Balance on hand July 31, 1907.....		\$1,649.25

STATEMENT FOR THE FISCAL YEAR ENDING JULY 31, 1908.

RECEIPTS.

Balance on hand August 1, 1907.....		\$1,649.25
Interest on bonds, 1908.....	\$2,000.00	
Receipts from students, 1907-8.....	643.46	
	<hr/>	<hr/>
		2,643.46
		<hr/>
Total receipts		\$4,292.71

DISBURSEMENTS.

Loans to students.....	\$2,983.00	
Gifts to students.....	200.00	
	<hr/>	<hr/>
		3,183.00
		<hr/>
Balance on hand July 31, 1908.....		\$1,109.71

THE ELLIOTT TRUST FUND.

This is a fund of five thousand dollars, the gift of Mrs. Mary H. Elliott, of California, formerly of Minneapolis, to the University of Minnesota, the income of which shall be at the disposal of the Board of Regents to aid students of the School of Mines. The fund is invested in "Northern Pacific Prior Lien, Gold Bearing Bonds," drawing 4 per cent, payable quarterly. The annual interest is \$200 and is loaned to students on their note without interest.

Seventeen students have received aid from this fund. Twelve of the seventeen students have paid their loans in full.

FINANCIAL STATEMENT.

RECEIPTS.

FOR THE YEAR ENDING JULY 31, 1907.

Balance on hand August 1, 1906.....		\$269.01
To interest for the quarter ending July 31, 1906...	\$500.00	
To interest for the year ending July 31, 1907.....	200.00	
Dec. 19. To payment from student on account loan.....	50.00	
1907.		
July 2. To payment from student in full of loan.....	75.00	
	<hr/>	<hr/>
		375.00
		<hr/>
Total receipts		\$644.01

DISBURSEMENTS.

Oct. 26.	By aid advanced student by order of Board of Regents	\$100.00	
1907.			
Jan. 9.	By aid advanced student by order of Board of Regents	100.00	
Feb. 11.	By aid advanced student by order of Board of Regents	100.00	
July 31.	Balance on hand.....	344.01	\$644.01

STATEMENT FOR THE YEAR ENDING JULY 31, 1908.

RECEIPTS.

	Balance on hand August 1, 1907.....		\$314.01
Sept. 4.	To payment from student in full of loan.....	\$25.00	
Sept. 9.	To payment from student in full of loan.....	125.00	
Sept. 23.	To payment from student on account of loan....	50.00	
Dec. 6.	To payment from student in full of loan.....	100.00	
July 31.	To interest for the year ending July 31, 1908.....	200.00	
			500.00
	Total receipts		\$814.01

DISBURSEMENTS.

Nov. 13.	By aid advanced student.....	\$100.00	
July 31.	Balance on hand.....	744.01	\$844.01

THE LUDDEN TRUST FUND.

This is a fund of \$10,000, the gift of the Hon. John D. Ludden of St. Paul, which sum has been placed at the disposal of the Board of Regents of the University. The fund is invested in "Northern Pacific Prior Lien Bonds," drawing 4 per cent, payable quarterly. The annual income is \$400.

The income from this fund is bestowed as a gift for the financial assistance of worthy students of either sex in the School of Agriculture.

Twenty students have received aid from this fund.

FINANCIAL STATEMENT.

RECEIPTS.

FOR THE YEAR ENDING JULY 31, 1907.

	Balance on hand August 1, 1906.....	\$786.25	
	To interest on bonds, four quarterly payments of \$100	400.00	
	Total receipts		\$1,186.25

DISBURSEMENTS.

1906.			
Nov. 21.	By gift to student, by order of Board of Regents.	\$50.00	
Nov. 28.	By gift to student, by order of Board of Regents.	50.00	
Dec. 20.	By loan to student, by order of Board of Regents.	50.00	150.00
July 31.	By balance in treasury.....		\$1,036.25

STATEMENT FOR THE YEAR ENDING JULY 31, 1908.

RECEIPTS.

	To balance on hand August 1, 1907.....	\$1,036.25	
	To interest on bonds, four quarterly payments....	400.00	
	Total receipts		\$1,436.25

DISBURSEMENTS.

1907.		
Nov. 14.	By gift to student, by order of Board of Regents.	50.00
Dec. 14.	By loan to student, by order of Board of Regents.	50.00
1908.		
Jan. 15.	By loan to student, by order of Board of Regents.	30.00
Jan. 15.	By gift to student, by order of Board of Regents.	50.00
Feb. 29.	By gift to student, by order of Board of Regents.	15.00
Feb. 19.	By gift to student, by order of Board of Regents.	25.00
Mar. 12.	By gift to student, by order of Board of Regents.	40.00
		260.00
July 31.	By balance in treasury.....	\$1,176.25

THE ALBERT HOWARD SCHOLARSHIP FUND.

The "Albert Howard Scholarship Fund" of \$4,166.81 is the gift of Mr. James L. Howard, of St. Johnsbury, Vt., and was left to the University of Minnesota to establish a scholarship to be known as the "Albert Howard Scholarship." This scholarship is awarded by the Executive Committee upon the recommendation of the General Faculty.

This fund is invested in Colorado Irrigation Bonds drawing six per cent and purchased at 98c on the dollar. The bonds cost \$3,920.00. The balance has been placed in the Swedish-American bank where it will remain until it shall amount to \$100, when it will be invested.

THE ROLLIN E. CUTTS PRIZE IN SURGERY.

Dr. Mary E. Smith Cutts, 1891 Medical, has given to the University a memorial of her husband, Dr. Rollin E. Cutts, 1891 Medical, the sum of \$500.00, the income of which is to be awarded in the form of a gold medal to that member of the senior class of the College of Medicine and Surgery who presents the best thesis showing original work upon a surgical subject.

This fund is invested in a farm mortgage, on the SE¼ of sec. 20, T. 14; R. 43 (160 Acres) Becker county, owned by Mrs. Nellie Bronseth and draws five per cent interest. Mortgage is due December 10, 1910.

GIDEON MEMORIAL FUND.

This fund of \$500, given by the State Horticultural Sociey, for a memorial to Peter M. Gideon, who originated the "Wealthy" apple. This fund was placed in the hands of the Board of Regents, who have invested it in "Town of Grand Rapids Bond" drawing five per cent and due in 1922.

The income from this fund is to be awarded as prizes for the encouragement of work in the Horticultural department of the College of Agriculture.

BOARD OF REGENTS.

CYRUS NORTHROP, LL. D., Minneapolis.....	Ex-Officio
The President of the University.	
The HON. JOHN LIND, Minneapolis.....	1914
The President of the Board	
The HON. JOHN A. JOHNSON, St. Peter.....	Ex-Officio
The Governor of the State	
The HON. JOHN W. OLSEN, Albert Lea.....	Ex-Officio
The State Superintendent of Public Instruction.	
The HON. THOMAS WILSON, St. Paul.....	1909
The HON. A. E. RICE, Willmar	1909
The HON. B. F. NELSON, Minneapolis.....	1910
The HON. PIERCE BUTLER, St. Paul.....	1910
The HON. CHARLES A. SMITH, Minneapolis.....	1910
The HON. S. M. OWEN, Minneapolis.....	1913
DR. W. J. MAYO, Rochester.....	1913
The HON. HENRY B. HOVLAND, Duluth.....	1914
C. D. DECKER, Minneapolis	
Secretary of the Board.	

THE UNIVERSITY.

CYRUS NORTHROP, LL. D., President	
ERNEST B. PIERCE, B. A., Registrar	
JAMES T. GEROULD, B. A., Librarian	
C. D. DECKER, Purchasing Agent	
J. D. BREN, Cashier	

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FREDERICK S. JONES, M. A., Dean of the College of Engineering and the Mechanic Arts	
EUGENE W. RANDALL, Dean and Director of the Department of Agriculture	
WILLIAM S. PATTEE, LL. D., Dean of the College of Law	
FRANK FAIRCHILD WESBROOK, M. A., M. D., C. M., Dean of the College of Medicine and Surgery	
EUGENE L. MANN, B. A., M. D., Dean of the College of Homeopathic Medicine and Surgery	
ALFRED OWRE, D. M. D., M. D., Dean of the College of Dentistry	
FREDERICK J. WULLING, Phm.D., LL.M., Dean of the College of Pharmacy	
WILLIAM R. APPLEBY, M. A., Dean of the School of Mines	
GEORGE B. FRANKFORTER, Ph. D., Dean of the School of Chemistry	
GEORGE F. JAMES, Ph. D., Dean of the School of Education	
HENRY T. EDDY, C. E., Ph. D., LL. D., Dean of the Graduate School.	
ADA L. COMSTOCK, M. A., Dean of Women	

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The University

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 PROFESSOR JOHN H. GRAY
 PROFESSOR H. F. NACHTRIEB

PROFESSOR NORMAN WILDE

The College of Engineering and the Mechanic Arts

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The College and School of Agriculture

DEAN EUGENE W. RANDALL
 PROFESSOR HARRY SNYDER

PROFESSOR SAMUEL B. GREEN

The College of Law

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The College of Medicine and Surgery

DEAN F. F. WESBROOK

PROFESSOR THOMAS G. LEE

DEAN HENRY T. EDDY.

.. The College of Homeopathic Medicine and Surgery

DEAN EUGENE L. MANN

The College of Dentistry

DEAN ALFRED OWRE

The College of Pharmacy

DEAN FREDERICK JOHN WULLING

The School of Mines

DEAN WILLIAM R. APPLEBY

The School of Chemistry

DEAN GEORGE B. FRANKFORTER

The College of Education

DEAN GEORGE F. JAMES

The Graduate School

General Alumni Association

DAVID P. JONES

The Dean of Women

ADA L. COMSTOCK

THE FACULTY, 1907-08

Distribution

Department or School	Professors and Instructors		
	Men.	Women.	Totals.
School of Agriculture.....	36	12	48
College of Agriculture .....	..	..	..
College of Science, Literature and the Arts.....	72	11	83
College of Engineering	25	..	25
School of Mines	7	..	7
School of Chemistry .....	..	..	..
College of Education .....	..	..	..
Graduate School .....	..	..	..
College of Law	7	..	7
College of Medicine	34	..	34
College of Dentistry	21	1	22
College of Pharmacy	3	..	3
<hr/>			
Summer School (University Sect.).....	205	24	229
	10	7	17
<hr/>			
	215	31	246

In the above, none are counted twice.

LIST OF MEMBERS.

CYRUS NORTHROP, LL.D., President	519 Tenth Ave. S. E.
Office, Library Building	
AMOS W. ABBOTT, M.D.	21 Tenth St. S.
Clinical Professor of Diseases of Women.	
EVERTON J. ABBOTT, A.B., M.D.	Endicott Arcade, St. Paul
Clinical Professor of Medicine and Chief of Medical Clinic.	
HOWARD S. ABBOTT, B. L.	900 Sixth St. S. E.
Professor of Corporation Law.	
H. C. ALDRICH, M.D.	Medical Block
Professor of Gynecology.	
FRANK MALOY ANDERSON, M.A.	1629 University Ave. S. E.
Professor of History.	
CHARLES M. ANDRIST, M.L.	706 Delaware St. S. E.
Assistant Professor of French.	
WILLIAM R. APPLEBY, M.A.	911 Fifth St. S. E.
Dean of the School of Mines and Professor of Metallurgy.	

E. E. AUSTIN, M.D.	Andrus Building, Minneapolis
Professor of Gynaecology.	
FREDERICK H. BASS, B.S.	116 Beacon St.
Assistant Professor of Municipal and Sanitary Engineering.	
GEORGE N. BAUER, Ph.D.	4903 41st Ave. S.
Professor of Mathematics.	
JOSEPH W. BEACH, Ph.D.	The Ashmore, 325 6th Ave. S. E.
Assistant Professor of English.	
RICHARD OLDING BEARD, M.D.	Andrus Building
Professor of Physiology.	
JOHN W. BELL, M. D.	Andrus Building
Emeritus Professor of Medicine and Physical Diagnosis.	
CHARLES W. BENTON, M.A., Litt.D.	516 Ninth Ave. S. E.
Professor of French Language and Literature.	
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Professor of Orthopaedia.	
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Professor of Agriculture and Animal Husbandry, in charge of	live stock.
WILLIAM BOSS	St. Anthony Park
Professor of Farm Structures and Farm Mechanics.	
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Professor of Materia Medica and Therapeutics.	
WARREN S. BRIGGS, M.D.	Pittsburg Building, St. Paul
Senior Professor of Clinical Surgery.	
WILLIAM E. BROOKE, B.C.E., M.A.	405 Oak St., S. E.
Professor of Mathematics and Mechanics.	
JABEZ BROOKS, D.D.	1708 Laurel Ave.
Senior Professor of Greek Language and Literature.	
EDWARD D. BROWN, Phm.D., M.D.	3129 Lyndale Ave. S.
Acting Professor of Materia Medica and Pharmacology.	
JOHN C. BROWN, M.A.	934 15th Ave. S. E.
Assistant Professor of Animal Biology.	
ROME G. BROWN, A.M.	1918 Queen Ave. S.
Special Lecturer on Water Rights.	
COATES P. BULL, B.Agr.	2137 Commonwealth Ave.
Assistant Professor of Agriculture.	
CHARLES W. BUNN.	549 Portland Ave., St. Paul
Special Lecturer on Federal Jurisdiction.	
OSCAR BURKHARD, M.A.	Minneapolis
Assistant Professor of German.	
RICHARD BURTON, Ph.D.	The Hampton Apartments
Professor of English Literature.	
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Assistant Professor of Mathematics.	
A. B. CATES, A.M., M.D.	Dayton Building
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Assistant Professor of Forestry.	
PETER CHRISTIANSON, B.S., E.M.	208 Beacon St. S. E.
Assistant Professor of Assaying.	
JAMES T. CHRISTISON, M.D.	Endicott Arcade, St. Paul
Professor of Diseases of Children.	
JOHN S. CLARK, B.A.	720 Tenth Ave. S. E.
Professor of Latin Language and Literature.	
FREDERICK E. CLEMENTS, Ph.D.	800 4th St. S. E.
Professor of Botany	
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Dean of Women and Assistant Professor of Rhetoric.	
ALFRED E. COMSTOCK, M.Sc., M.D.	New York Life Building, St. Paul
Professor of Regional Surgery.	
ELTING H. COMSTOCK, B.S.	1530 Como Ave. S. E.
Assistant Professor of Mathematics.	
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Professor of Structural Engineering.	
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Director of the Gymnasium.	
J. FRANK CORBETT, M.D.	Syndicate Block
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Assistant Professor of Mathematics.	
SAMUEL N. DEINARD, Ph.D.	1807 Elliott Ave.
Assistant Professor of Semitic Language and Literature.	
IRA H. DERBY, B.A.	626 14th Ave. S. E.
Assistant Professor of Chemistry.	
SAMUEL B. DETWILER, B.S.	St. Anthony Park
Assistant Professor of Forestry.	

HAL DOWNEY, M.A. Assistant Professor of Animal Biology.	1206 Seventh St. S. E.
JOHN F. DOWNEY, M.A., C.E. Dean of the College of Science, Literature and the Arts, and Professor of Mathematics.	825 Fifth St. S. E.
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EDMUND S. DURMENT Special Lecturer on Eminent Domain.	611 Holly Ave., St. Paul
HENRY T. EDDY, C.E., Ph.D., LL.D. Dean of the Graduate School, and Professor of Mathematics and Mechanics.	916 Sixth St. S. E.
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HENRY A. ERIKSON, E.E. Assistant Professor of Physics.	220 Church St. S. E.
DANIEL FISH Special Lecturer on Law Making.	New York Life Building
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HENRY J. FLETCHER, LL.M. Professor of Law.	75 Dell Place
WILLIAM W. FOLWELL, LL.D. Emeritus Professor of Political Science.	1020 Fifth St. S. E.
BURNSIDE FOSTER, M.A., M.D. Clinical Professor of Diseases of the Skin, and Lecturer upon the History of Medicine.	Lowry Arcade, St. Paul
GEORGE B. FRANKFORTER, M.A., Ph.D. Dean of the College of Chemistry and Professor of Chemistry.	525 River Road S. E.
EDWARD M. FREEMAN, M.S., Ph.D. Professor of Vegetable Pathology and Botany.	St. Anthony Park
JULIUS T. FRELIN, B.A. Assistant Professor of French.	1523 7th St. S. E.
DWIGHT A. GAUMNITZ, M.Agr. Assistant Professor of Animal Husbandry.	St. Anthony Park
ARTHUR J. GILLETTE, M.D. Professor of Orthopaedic Surgery.	Seven Corners, St. Paul
JOHN E. GRANRUD, Ph.D. Assistant Professor of Latin.	605 Delaware St. S. E.
JOHN H. GRAY, Ph.D. Professor of Economics and Politics.	412 Walnut St. S. E.
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SAMUEL B. GREEN, B.S. Professor of Horticulture and Forestry, and Horticulturist of the Experiment Station.	St. Anthony Park
BENJAMIN F. GROAT, B.S. Professor of Mechanics and Mathematics.	503 7th St. S. E.
T. L. HAECKER Professor of Dairy Husbandry and Animal Nutrition, in charge of the Dairy Husbandry in the Experiment Station.	St. Anthony Park
CHRISTOPHER W. HALL, M.A. Professor of Geology and Mineralogy, Assistant Curator of the Museum.	803 University Ave. S. E.
OSCAR H. HALL, M.D. Professor of Renal Diseases.	Pittsburg Building, St. Paul
ASA HAMMOND, A.B., M.D. Professor of Clinical Medicine and Physical Diagnosis.	Germania Life Ins. Building, St. Paul
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GEORGE M. HAYWARD, M.D. Clinical Professor of Otology, Rhinology, and Laryngology.	Medical Building
GEORGE D. HEAD, B.S., M.D. Professor of Clinical Microscopy and Medicine.	Andrus Building
ADAM C. HICKMAN, LL.D. Professor of Law.	1229 Seventh St. S. E.
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Special Lecturer on Landlord and Tenant.

JOHN A. HUMMEL, B.Agr. 2141 Commonwealth Ave.
Assistant Professor of Agricultural Chemistry.

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Clinical Professor of Medicine and Chief of Medical Clinic.

ETHEL HURD, M.D. Pillsbury Building
Associate Professor of Electro-Therapeutics.

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Professor of Greek Language and Literature.

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Associate Justice of the Supreme Court.

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Dean of the College of Education and Professor of Education.

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Professor of Anthropology.

JOHN BLACK JOHNSTON, Ph.D. 509 St. Anthony Parkway
Associate Professor of Comparative Neurology.

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Dean of the College of Engineering and Mechanic Arts, and Professor
of Physics.

WILLIAM A. JONES, M.D. Dayton Building
Clinical Professor of Nervous and Mental Diseases.

HANS JUERGENSEN 1612 Eleventh Ave. S.
Assistant Professor of German.

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**Died May 29, 1908.	
† Resigned June, 1908.	

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* Died May 18, 1908.

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SIXTEENTH BIENNIAL REPORT

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For the Fiscal Years Ending
July 31, 1909, 1910

MINNEAPOLIS, MINN.
1911

ANNUAL REPORT

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SIXTEENTH BIENNIAL REPORT

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UNIVERSITY OF MINNESOTA
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The Board of Regents of The University of Minnesota

For the Fiscal Years Ending
July 31, 1909, 1910

MINNEAPOLIS, MINN.
1911

To His Excellency, Adolph O. Eberhart, Governor of Minnesota.

Sir: On behalf of the Board of Regents of the University of Minnesota, and pursuant to law, I have the honor to herewith submit the sixteenth biennial report of the board for the period ending July 31st, 1908, with estimates, report of the President of the University, special report of the agricultural extension division and report of the acquisition of lands for the extension of the campus, all appended thereto.

Very respectfully, your obedient servant,

JOHN LIND,

President of the Board of Regents.

Dated, December 13th, 1910.

REPORT

The statute (§ 1476) requires the Board of Regents to make report to the governor "showing in detail the progress and condition of the university during the preceding university year, its wants, the nature, cost, and result of all improvements, experiments and investigations, the number and names of professors, teachers and students in each department, the amount of money received and disbursed, and such other matters, including industrial and economic statistics, as it may deem important." Pursuant to this requirement the Board of Regents begs leave to report:

PROGRESS, GROWTH AND CONDITION.

The time covered by this report marks a period of unprecedented progress and growth in the University; progress in the general character of the work; higher efficiency in instruction; more thorough preparation for entrance to the professional schools and a more general recognition on the part of the public of the high standard and usefulness of the institution.

The diplomas issued by the University of Minnesota to graduates from the colleges of agriculture, medicine, pharmacy and dentistry are as high evidence of attainments and efficiency as those issued by any institution in the land, with the possible exception of two. Better facilities for instruction, increase in the number and efficiency of instructors and improvement in administration, which plans now on foot will insure, will make the diplomas from the other colleges stand for as much as those named.

The numerical growth of the university is shown at a glance by the following table of attendance for the decade:

1901.....	3,413
1902.....	3,656
1903.....	3,788
1904.....	3,845
1905.....	3,790
1906.....	3,955
1907.....	4,145
1908.....	4,421
1909.....	5,066
1910.....	5,369

The increase in the instruction staff is 94, and in the number of employes, 371.

The increase in numbers shown by the foregoing statement, however, is by no means the sole measure of either growth or progress. The increasing facilities afforded by the institution for higher work and the relatively larger number of students who avail themselves of the opportunity for such work from year to year, and the better training and higher efficiency of our graduates generally, is the most satisfactory evidence of progress.

Graduates from many of the vocational departments of the university are offered positions before their course of professional training is completed. This is notably true in the colleges of agriculture and education,

whose graduates are in great demand. The graduates of the mining and engineering departments are almost equally fortunate. Our graduates in law and medicine are also making a creditable record for themselves and for the institution throughout the Northwest.

That such phenomenal growth as the above figures indicate demands at least a proportionate increase in appropriations is self-evident. But when it is borne in mind that this normal demand has been increased from year to year by the advance in the price of all supplies required by the institution, as well as in the cost of living of those carried on the university's payroll, the problem of conducting the institution within an inflexible limit of cost fixed two years in advance becomes a practical impossibility. In addition to the increased expenditures for supplies incident to the growth of the institution and the higher priced living, the board has been compelled to increase all the salaries of the non-professional employes in order to make their wages afford support for themselves and their families. The salaries of some of the instructors, especially those having families, and of some of the assistant professors, have been slightly increased so as to afford a decent living. As a result of the conditions pointed out, the expenditures exceeded the appropriations in the first year of the biennial period, as will appear by the statement which follows. The deficiency for the present year, as shown by the estimate, will be much greater. There are some special factors which have contributed to this condition besides those already suggested. The Board of Regents reported an estimate for an annual appropriation of \$50,000 for the maintenance of the Elliot Hospital in its last report. But by some misunderstanding or oversight the legislature omitted to provide more than \$20,000 for the biennial period for the support of the hospital. The hospital was in operation and was indispensably necessary in connection with the work of the medical college. Consequently the board felt compelled to defray the cost of its maintenance out of the general fund for the maintenance of the institution. In like manner it became necessary to devote a considerable sum from the general fund for the completion and equipment of the dormitory for women so that it could be used the current year. The entrance requirements in the colleges of medicine and law have been advanced so as to require at least two years of college work before admission. The immediate effect of these requirements was to reduce the number of students entering these colleges during the period. In the colleges of engineering and in the school of mines the entrance requirements have also been increased and the courses extended. This necessary reform affected the income of the university from fees very materially without reducing the cost of maintenance. Students' fees for the year ending July 31st, 1909, were \$158,391.04; for the year ending July 31st, 1910, \$148,239.04, showing a loss of over \$10,000 during the last year, and there will be approximately a like shortage during the current year as compared to the year ending July 31st, 1909. But this condition is only temporary. The increased attendance in the colleges affected by the regulations referred to will soon equal and overtake the numbers of 1909. But notwithstanding this temporary loss of revenue we believe that the action of the board was not only justifiable but absolutely necessary. The standard adopted by the board prevails in all the leading institutions and is deemed necessary to insure that maturity of judgment and culture which it affords as a basis for a

technical or professional education, and in this state where the law authorizes those who receive diplomas in the so-called learned professions to immediately enter into practice, every consideration of public policy demands that our graduates from these colleges should by culture and discipline and attainments be worthy of the confidence bestowed by the law.

Foreseeing the inevitable demand for increased appropriations for the current period, the board in its last report urged upon the legislature, through the office of Your Excellency, that the university be given the proceeds of a half-mill tax levy as a standing appropriation for maintenance instead of the present provision of .23 of a mill, supplemented by specific appropriations. We said: "Our state is growing in population, wealth and development with leaps and bounds. The attendance of our institutions of learning and the demands for additional facilities are increasing in like manner. Estimates of increase in these respects are barely made before they require revision and larger figures. To guide the efficient and symmetrical development of the institution under such conditions is in itself a great task. It cannot be accomplished without adequate means. New buildings and other instrumentalities are demanded from time to time, but the money appropriated for those purposes is little better than wasted unless the funds available for maintenance and general expenses are sufficient to secure and maintain harmonious development and complete co-ordination of the several colleges and departments and the highest attainable efficiency in all.

"The pressure on the Board of Regents, both from within and without the institution, to enter new fields of activity is constant and at times almost irresistible. Under that influence the institution has attained its present vast dimensions, both in the scope of its work and in attendance. No backward step will be tolerated, but unless the legislature in its wisdom otherwise directs, it is not the plan of the board to enter upon any new work at present, except such as may be necessarily incident to the efficiency of that already undertaken. But notwithstanding this attitude of the board it is impelled to urge the absolute necessity of an increase in the annual appropriation for current expense. The board earnestly recommends that the legislature devote $\frac{1}{2}$ mill to this purpose, instead of .23 of a mill, supplemented by special annual appropriations, as is now the practice. A certain income, from year to year, fixed in advance and governed in amount by the growth of the state, and the consequent requirements of the university, would enable the board to adopt and follow a more settled policy in the administration of the affairs of the institution and would be conducive to economy. Intermittent and irregular appropriations for permanent objects always result in loss and more or less waste. Inadequate funds for maintenance means inefficient work. The state having assumed the responsibility for furnishing our future citizens higher education, they should not be permitted to waste their time. A matter of \$50,000 to \$75,000 per annum cannot in justice or with safety to the state, be allowed to outweigh the present and future vital interests of an army over four thousand of young men and women."

If the foregoing recommendation of the board had been adopted by the last legislature, the university would have had sufficient funds for main-

tenance and we would have been able to show a favorable balance at the end of the current year.

The board earnestly repeats with added urgency its former recommendation that the half mill tax be authorized for the permanent support of the institution. The financial statement which follows shows a deficit for the year ending July 31, 1910, of \$64,208.24, and the estimated deficit for the current year will probably reach \$75,000.00. In incurring these deficits the board was not blind to the fact that it may be said to have technically violated the law, but in this connection it must also be borne in mind that it is made its duty by other sections of the statute to maintain and carry on the work in the several colleges established by the legislature and to admit all citizens of the state to the institution who are properly qualified for entrance. Accordingly, we have been, and are, confronted with the alternative of either shutting the doors of the institution to new students, in violation of law, or to allow them to enter, continue the work as long as the funds last, report the inevitable deficiency to the legislature in the hope that an appropriation be promptly made to complete the current year, and if the latter be refused, to close the work in April instead of June.

The first alternative seems so entirely inconsistent with public sentiment and the attitude of our people toward higher education that we chose the second horn of the dilemma and now earnestly request a special appropriation of \$130,000 to cover the deficiency that will come in the current biennial period. This appropriation is indispensable to enable us to complete the year's work. It is proper to say that, except as heretofore explained, no limit of cost set by the legislature has been in any wise exceeded. If the legislature should see fit to grant the half mill tax for maintenance, the money from that source will not be available for the year ending July 31st, 1912, for the levy cannot be made until next year. It will, therefore, be necessary to appropriate not less than \$300,000 for maintenance for the year ending July 31st, 1912, in addition to the .23 of a mill now available for that purpose. The amount of this estimate is contingent on the other estimates for repairs and equipment being allowed, as hereinafter recommended.

CAMPUS EXTENSION AND NEW BUILDINGS.

By chapter 480, General Laws 1907, the cost limit originally fixed for campus extension was increased to \$1,050,000, with power in the board to anticipate the tax levies provided for by the sale of certificates of indebtedness. The act also required the board to erect an engineering building and laboratory to cost not to exceed \$250,000 out of the proceeds of the tax levies authorized.

We are pleased to report that the work of acquiring all the land within the boundaries of the extension, as originally contemplated, has been fully completed, as will be seen by the detailed accounts thereof annexed to this report. With the acquisition of the land completed and all expenss in connection therewith fully paid, the board had left available for the engineering buildings \$210,000 to be derived from the sale of certificates (after allowing for the interest to accrue on such certificates). In addition to that amount, which can be raised at any time as we believe, the university owns

a large number of dwelling houses located on the campus extension which can be disposed of at any time for upwards of \$40,000 on the most conservative estimate, so that the board has the full amount of \$250,000 available for the engineering buildings, as required by the act referred to. We are, however, deriving a good income from the buildings by rentals aggregating upwards of \$1,000 per month, and inasmuch as many of the sites occupied by these buildings will not be required for university purposes for some time to come, it would seem poor business policy to sell these houses for such prices as houses will bring to be removed, when they afford an income of more than 25 per cent net on the amount that they would sell for. Besides if the income derived from these houses could be devoted to the improvement of the new campus no large appropriation for that purpose would be required for some years to come. It is, therefore, urgently recommended that an appropriation be made, as hereinafter stated, specifically, so that the board will not be under the necessity of selling the houses at the present time.

The cost of a building for educational use, especially if such use involves accommodations for laboratory work, cannot be properly estimated in advance of approved plans and specifications. The estimate of \$250,000 for the engineering buildings undoubtedly seemed adequate when the legislature fixed that limit of cost and the buildings which are planned are technically within the limit. The contract for the laboratory part has already been let at \$91,462.00, and the Board of Control holds an option under which it can require the same contractor to build the other section of the engineering buildings at \$149,815.00 (architect's and engineering fees, \$8,723.00, to be added), such option to be exercised within six months. The building covered by the option, while technically complete in every detail and fully fire-proofed, will not be the completed structure finally contemplated. It is so planned that wings can be added as soon as appropriations are available for the purpose. An addition of the wings is not only desirable from an architectural standpoint, but the space which it would afford is immediately needed by the college. The estimated cost of wings, if built in conjunction with the main building, would be only \$75,000, but if erected separately it would undoubtedly cost considerably more. Hence it would seem good business policy and prudence to make an appropriation for the erection of the wings at this time and the board so recommends.

What has been already said with reference to the engineering building is equally applicable to the two medical buildings authorized by the last legislature, with a cost limit for each fixed at \$200,000. Plans and specifications have been prepared for both of these buildings at a great expenditure of time on the part of the board and the faculty of the college, as well as the necessary architect's fees. Plans and specifications with the future wings omitted will cost respectively, according to the lowest bids received, as follows: Anatomy Building, \$237,495; Millard Hall, \$246,000.

The plans for both these building contemplate the addition of wings to complete the structures architecturally as soon as the requirements of the college demand. The present plans contemplate only the construction of the main part, which, however, constitutes, when erected, a completed building, but with proper provision for the addition of the wings in the

future. As planned the buildings cannot be materially modified without sacrificing space that is immediately required and impairing the construction to a degree that would make the buildings as temporary in their character as some of the earlier structures on the campus, many of which have already been lost by fire. We said in our last report that all new construction on the campus should be, not only fire-proof, but time-proof as far as possible, and arranged so as to be convenient and economical of maintenance and administration. The plans referred to have been prepared with these ends in view and nothing else. The buildings are as plain and free from ornamentation as it is possible to have them. The bids above quoted have been rejected and the Board of Control is now advertising for new bids in the hope that better offers can be obtained, but it is not possible to secure their erection within the limits specified. The board, therefore, recommends that the cost limit be increased and appropriations made therefor as follows: Anatomy building, \$37,495; Millard Hall, \$46,000.

Of new construction not heretofore authorized, the most urgent is the erection of a chemistry building and laboratory. The necessity for this building is more pressing than any other item of new construction recommended. Some fifteen hundred students are taking chemistry in a building entirely unfit and inadequate for the work. Besides the structures are veritable firetraps. In the laboratory the students are crowded as closely as they can stand, almost shoulder to shoulder. There is no adequate provision for ventilation. The fumes incident to the chemical operations make the atmosphere intolerable. Students have fainted at their work repeatedly. Besides there is the constant menace of fire and the destruction of books, instruments and scientific apparatus of great cost and value. Plans and specifications for such building and laboratory have been sufficiently worked out to enable us to give an accurate estimate of the cost. The cost, including the equipment, will be \$405,000.

Second in the order of urgency of need is a new building for the medical college, to replace the present pathology building on the old campus. The present pathology building is a most excellent structure, the best building on the campus to date, but it is located at such great distance from the hospital and from the other buildings of the medical group that it is deemed necessary that a new building should be erected in that group to supersede it. The present pathology building, with very slight changes, is admirably adapted for class and laboratory purposes for departments in the college of science, literature and arts, so that there is no loss involved in the transfer. The proposed new building will be virtually a duplicate of the old and will require \$290,000 for construction and equipment.

The next item in order of importance in new construction is a second dormitory building for women. The first dormitory authorized by the last legislature has been completed and is occupied by nearly one hundred young women from outside the Twin Cities. It is aimed to make the building self-sustaining hereafter and in this it is believed the board will be successful. Consequently no other expense is entailed in the erection of a dormitory than the initial cost. The value of dormitories can hardly be over-estimated. With a daughter located in a dormitory under the supervision of our excellent Dean of Women, and a carefully chosen matron, parents living at a

distance can feel the same assurance that their daughters are surrounded by wholesome influence as they would if they were at home under their personal supervision and guidance. In addition, dormitory residence under proper auspices is in itself a cultural influence only second in value to the academic training. It is earnestly hoped that the legislature will appropriate \$100,000 to cover the cost of construction and equipment of a second dormitory.

With Shevlin Hall as a general meeting place for the women in the university, affording opportunities for rest and recreation, with a splendidly conducted restaurant in which a lunch of good, wholesome, well-prepared food is served at a very moderate price, the women in attendance at the institution are fairly well cared for, especially those who are enjoying dormitory facilities. The effect of these improvements is reflected in much better general health and spirits than prevailed some years ago. But while fairly adequate provision is being made for the women, nothing in that direction has been done for the men, which fact is a source of constant anxiety to the faculty and to the board. There are daily upon the university campus some twenty-two hundred young men for whom no provision of any sort is made outside of their class room work. These men eat their noon-day lunch where they may, and find their amusements where they must. It is impossible for a man to get a meal at a restaurant in the neighborhood of the university that is reasonably fit to eat, even though he pay a price that should procure him wholesome food. It is difficult to estimate the evil of this condition. The only provision for the social needs of the men of the university is found in two cigar stores in the neighborhood of the campus. There should be on the campus a place where the men could meet, as the women do in Shevlin Hall, become acquainted and enjoy school life and proper amusements under helpful conditions. At present they enjoy none of these privileges. If they desire amusements, they must go across the river and find them under conditions that are anything but helpful. The faculty members are also greatly in need of such a building. A building for the men on the campus would add greatly to the enjoyment of faculty life and make the opportunity of usefulness on the part of the faculty to the students outside the classes infinitely greater than it is at present. Our student body can never get the full benefit that ought to be derived from a college course until better opportunity is afforded for more intimate personal relations with the instructors, and faculty members generally, than is afforded under present conditions. The inspiration of higher ideals and the development of manliness and character can best be communicated by personal contact between man and man.

An earnest effort has been made by the Minnesota Union to raise funds for the purpose of erecting such a building. A large amount of money has already been subscribed, but it is feared that the requisite amount to construct an adequate building of the style and character that the general development of the university demands cannot be obtained without assistance from the state. The building is estimated to require \$300,000 and the Board of Regents earnestly recommends that the legislature appropriate the sum of \$150,000 for the purpose, to be available so soon as the state treasurer certifies to the governor that there has been deposited in the state treasury

\$150,000 to the credit of the State of Minnesota, for this purpose, by citizens of the state; the whole sum of \$300,000 to be thereupon available for the construction and equipment of a building for men under the same conditions as the other buildings on the campus are erected.

By the construction of the new buildings in the medical group, the engineering buildings and the proposed new chemistry building, there will be available for the relief of the crowded condition in the other colleges the buildings on the old campus vacated, viz., Pillsbury Hall, the chemistry building, the old engineering building, and the medical science building.

These buildings are all of early construction, very combustible, and in their present condition a constant menace to the university. The loss of either Pillsbury Hall or the chemistry building, with their large contents of specimens and scientific collections and instruments, would be a calamity. Both of these buildings have substantial and imposing exterior walls, which will readily lend themselves to inside fire-proof construction. It is the plan of the Board of Regents, if the necessary appropriations are made, to reconstruct the interiors of both of these buildings and make them fire-proof. In making these changes, of course, they will be adapted to their future use so that they will answer every purpose of new buildings. Estimates made by the architect of the Board of Control for such reconstruction and fire-proofing are as follows: Pillsbury Hall, \$103,000; chemistry building, \$102,000.

Millard Hall, the interior of which was destroyed by fire last year, has been rebuilt with fire-proof construction and is now used for the temporary accommodation of classes. It will require new equipment, as hereinafter stated. The old engineering building and the medical science building are not deemed sufficiently substantial to justify the expense of fire-proofing. The plan of the board is to make necessary alterations and put them in repair as far as possible to meet the requirements of the new uses to which they are to be devoted, with the minimum of expense. The estimate for the medical science building is \$25,500, the old engineering building, \$9,000. The estimate for the changes in the old pathology building will be submitted hereinafter.

Substantial progress has been made in the development and execution of the plans for distributing heat, light and power from the proposed central plant to all the buildings on the new and old campus. The proposition presented a difficult problem on account of the wide distribution of the buildings, the difference in elevation between different portions of the campus and the location of the Northern Pacific Railway through the center at its present depressed grade. But the whole matter has been efficiently and economically solved by a tunnel extending through the whole campus at a level below the railway tracks. The geological formation under the campus makes the construction and maintenance of this tunnel very cheap and economical. The work of its construction is being carried on by the engineering department with most satisfactory progress and at a minimum of cost. It is found, however, that the appropriations heretofore made for the central plant are insufficient for its adequate construction and equipment. An additional appropriation of \$100,000 for that purpose is absolutely necessary.

Of the new buildings recommended for the college of agriculture and

the respective stations, the board submits, without going into detail with regard to the necessity of each building, that they are absolutely necessary to provide even crowded accommodations for the constantly increasing student body. All that we have said on the subject of dormitories on the old campus is equally applicable to the subject in relation to the agricultural college, with the additional fact that at the agricultural college, owing to its location, the state must provide accommodations for the students if it would have them come, for they cannot find accommodations away from the campus.

The state is receiving generous aid from the general government for the support of the agricultural college, under legislation requiring military training and discipline of the students. This training has sufficient value in the physical development and improvement of the students to warrant its continuance if it were not required by positive law. But the institution has no adequate facilities for properly discharging its obligations in this respect. An adequate armory would cost perhaps \$300,000. The board feels that this large expense is not warranted, owing to the many pressing demands of the institution. The live stock building on the fair grounds, known as the pavilion, is one of the most admirable buildings for uses of this character in the country. It is only thirteen minutes walking distance from the agricultural college group of buildings and as it stands vacant at all times when required for the use of the college, the board recommends legislation authorizing its use by the college of agriculture as a drill hall, with an appropriation of \$50,000 to equip it for the purpose and to provide a sectional floor which may be removed when the building is required for the purposes of the fair. The uses of the other buildings recommended is sufficiently expressed in the title. We repeat that they are all imperatively needed.

EXTENSION WORK.

Appropriations were made by the last legislature for extension work in the agricultural college and also in the department of economics and in the college of education; \$50,000 for the agricultural college and \$10,000 each for the others. These appropriations were in response to a well defined and active public sentiment that work of that character should be undertaken by the university. The board, while it had made no request for these appropriations, had carefully considered the field and had the work in mind to be inaugurated as soon as the administrative machinery had been organized and funds provided. The work has been successful and its result eminently satisfactory to the public, as is shown by the fuller discussion contained in the report of the deans and the head of the department of economics included in the report of the president. After carefully canvassing the situation, the board is of the opinion that for the ensuing period there should be an annual appropriation of \$55,000 for extension work, \$35,000 of which is to be expended in the agricultural college to include a special course for the training of teachers in agricultural subjects and \$20,000 to be expended in the other colleges and departments under the direction of the board.

MECHANICAL APPARATUS AND SCIENTIFIC BOOKS AND INSTRUMENTS.

The tools designated by the above heading are most essential to the future progress and development of the university in scientific work, research and investigation. Our equipment generally for work of this character, both in the college of agriculture and in the other colleges and departments, is very meager and in no one of them is it wholly adequate. At present all expenditures for these purposes are defrayed from the maintenance fund. This is illogical, for the tools for carrying on the work is a permanent investment just as much as the buildings and equipment in which the work is carried on. The principal difficulty under the present situation arises from the fact that the necessity of the scientific publication or instrument does never appeal quite so forcibly to the board as do many of the other requisitions that come before it, although the real necessity of the former may be the greater. With the maintenance fund always hard pressed, it will be readily understood how even the most urgent appropriations for the purposes enumerated may be postponed or denied. A specific appropriation existing, the board would place its distribution in the hands of a proper committee who would constantly be apprised of the exact wants in each department and who could better judge of the necessity of particular requisitions, as they might be presented from time to time, than can the members of the board. Such organization for handling this subject would also tend to prevent unnecessary duplication, of which there is always some danger. The board recommends that a standing annual appropriation of \$50,000 be granted for the purpose specified.

RESEARCH WORK AND PUBLICATION.

Scientific investigation and research work have not heretofore been fostered in our university to any extent. The causes for our backwardness in this respect are many. The rapid progress of the institution, the large number of students in the classes, the great amount of class work carried by each instructor and professor, as well as the lack of room and facilities, have all contributed to delay this work. Such research work as has been carried on by individual professors has been done almost by stealth and largely in their own time. The board has not even had sufficient funds to print and publish their work, though much of it is very valuable and deserves publication. We have many men on the faculty who have already distinguished themselves and reflected honor on the institution with the limited opportunities that they have had, and the board is confident that with adequate encouragement and opportunity they will soon place our university in the rank of the institutions that are now substantial contributors to the stock of the world's knowledge. The time is ripe for inaugurating this work. Our state is now old enough so that we are beginning to have students who aspire to devote themselves to scientific pursuits and research. This tendency has been materially stimulated by the public spirit and munificence of Mr. Thomas Shevlin, who, in addition to his other gifts to the university, last summer gave the Board of Regents \$40,000 invested in five per cent bonds in trust for the foundation and maintenance of four fellowships, one in agriculture, one in chemistry, one in medicine, and the other for the college of science, literature and arts. This gift will constantly

enable four worthy graduates to continue advanced work in the colleges named with an income of \$500 under the fellowship awarded to each. The writer has assurances of other intended gifts of a like character. It is, therefore, urgently requested that a standing appropriation of \$50,000 per annum be made for research work and publications.

COLLEGE OR DEPARTMENT OF MEDICINE.

The statute (§1479) establishing the organization of the university directs that there shall be maintained "a college or department of medicine." There is no provision in the law directing or authorizing the Board of Regents to maintain colleges of separate schools in medicine. For some years in the past the regents nevertheless had established and supported out of the maintenance fund a college of homeopathy in addition to the college of medicine authorized by the statute. But the attendance in that college had dwindled to such extent that at the close of the last biennial period there were only two students. To maintain a homeopathic college organization under these circumstances would have been an utter waste of public money and very prejudicial to the efficiency of the remainder of the work, which would have been deprived of support to that extent. Accordingly, the board discontinued the "homeopathic college organization" as such, making adequate provision for the instruction of students in the tenet of that school in the general college.

Under these circumstances it was not deemed prudent to expend the \$50,000 appropriation for a separate building.

RESIGNATION OF PRESIDENT NORTHROP AND THE ELECTION OF HIS SUCCESSOR.

At the meeting this date the board was constrained to take action on a subject which has long cast its shadow over our deliberations, by adopting the following resolution:

"Be It Resolved, That this board accepts the resignation of President Cyrus Northrop, to take effect April 1st, 1911, upon the qualification of his successor, in accordance with his own desire, frequently expressed during the last two years to the board and its members. The board recognizes that he has earned the right to retire. For more than a quarter of a century he has served the university as its president faithfully and effectively. Its growth during the period of his service attests the value of his work. Advancing years and an administration of unexampled success justified him in his determination to lay down the burden, and his expressed desire so to do amounted to a command to the board to name his successor.

"It is not the intention of this resolution to spread upon the records of the board any adequate statement of the work of President Northrop, or of the gratitude due to him by all of the people of the state, or the personal regard in which he is held by the members of this board, the faculty and students of the university, but rather to justify his resignation and the board's acceptance of it at this time."

Immediately upon its adoption Dean George E. Vincent, of the University of Chicago, was elected president of the university, to enter upon the discharge of his duties on April 1st, 1911. In his election the board be-

believes that the university has found a worthy successor to President Northrop and we confidently look forward to an era of unparallel development and prosperity under his guidance.

ESTIMATES.

Our estimates for the support of the institution are as follows:

Appropriations That Should be Made Standing Annual Appropriations in

Lieu of the Present Standing Appropriations.

In lieu of subdivision 2 of Sec. 1483, General Statutes, the following:

The proceeds of .50 mills on the dollar of the state school tax.

In lieu of §1484 the following:

For the support of the school of mines and for the salary of instructors in said school of mines and for the salary of a professor of electrical engineering in said university, \$25,000.

New Standing Appropriations.

Mechanical apparatus and scientific books and instruments, \$50,000.

For research work and publication, \$50,000

Deficiency.

To cover deficit in appropriations for the current biennial period, \$130,000.

Note: The deficit for the fiscal year ending July 31st, 1910, shown as \$11,708.24 is not a true statement of the excess of disbursements over receipts for that fiscal year. There had been received from the general government during the year \$52,500, which really belonged to the current year, but under the practice heretofore prevailing, has been treated as an available receipt for the year in which it is paid. The real excess of disbursements over receipts for the year ending August 1st, 1910, was \$64,228.24, estimating the excess of expenditure over receipts for the current year to be approximately the same, aggregates the deficit above asked for.

The board recommends the following specific appropriations for the agricultural department:

Buildings, repairs and alterations:

Dining hall alterations.....	\$65,000.00
Dining hall repairs.....	5,000.00
Domestic Science building alterations and repairs.....	10,000.00
Electric wiring	4,000.00
Heating tunnels	3,000.00
Power plant alterations and repairs.....	14,700.00
Basement of girls' dormitory.....	3,000.00
Remodeling old barn.....	5,000.00
Remodeling greenhouses	8,000.00
To replace equipment in girls' old dormitory.....	2,000.00
Water mains, fencing, lighting, grading.....	10,000.00
Dormitory for girls.....	100,000.00
Dormitory for boys.....	100,000.00
Gymnasium	100,000.00
Mechanic arts building and equipment.....	160,000.00
To improve the live stock amphitheater on the state fair grounds to be used for a drill hall for the School of Agriculture.....	50,000.00
Hog house	5,000.00
Bull barn	2,000.00
Horse barn	10,000.00

For Crookston Sub-Station:

Foundation for barn.....	2,000.00
Sheep fold	1,500.00
Silo	500.00
Addition to dairy barn.....	2,500.00
Water supply	1,000.00
Improvement of grounds.....	5,000.00
Central heating plant.....	40,000.00

For Morris:

To carry the school through the present year, immediately available for the year ending July 31, 1911.....	10,000.00
Girls' dormitory	50,000.00
Central heating plant.....	35,000.00
Machine and wagon shed.....	1,000.00
Hog, sheep and poultry building.....	1,500.00
General repairs and cistern.....	12,000.00

For Grand Rapids:

Creamery	1,500.00
Vegetable warehouse	1,500.00
Barn and silo.....	4,000.00
Well and water tank.....	1,500.00

The following are for the biennial period, one-half available for the year ending July 31st, 1912, the remainder for the year ending July 31st, 1913:

Repair and alteration fund.....	\$20,000.00
Campus maintenance	5,000.00
Poultry department, enlargement.....	10,000.00
Hog cholera work.....	8,000.00
Operation of denatured alcohol plant.....	4,000.00
Soil inspection	4,000.00
Purchase of live stock.....	8,000.00
Dairy extension	6,000.00
Investigation of horticultural crops.....	4,000.00
Investigation of injurious insects.....	5,000.00
Breeding of field crops.....	10,000.00
Support of Forestry School.....	8,000.00
Providing practical instruction for students of Forestry School and forest experimental work.....	15,000.00
Experiments in use of preservatives of timber.....	3,000.00
Library, Department of Agriculture.....	12,000.00
Study of drainage problems.....	5,000.00
Plant diseases and seed adulteration.....	5,000.00
Study of eradication of noxious weeds.....	4,000.00
General maintenance of poultry work.....	5,000.00
Agricultural engineering investigations.....	3,000.00
Field work in farm management.....	3,000.00
Animal nutrition investigations.....	5,000.00
State fruit farm investigations.....	5,000.00
For Crookston Sub-Station:	
Maintenance	20,000.00
For Crookston School:	
Maintenance	40,000.00
Alterations, repairs, and permanent improvements.....	15,000.00
For Morris School and Station:	
Maintenance, salary and equipment.....	29,000.00
For Grand Rapids Sub-Station:	
Maintenance	14,000.00
Extension work and publication of results, to include a special course for the training of teachers in agricultural subjects (\$35,000.00 to be expended in Department of Agriculture and \$20,000.00 in the University each year).....	110,000.00

The board recommends the following appropriations for the State University:

New chemistry building and laboratory.....	\$405,000.00
New pathology building.....	200,000.00
Dormitory for women.....	100,000.00
Engineering building equipment.....	40,000.00
Engineering building laboratory equipment.....	35,000.00
Pillsbury Hall, fireproofing.....	103,000.00
Chemistry building, fireproofing.....	102,000.00
Medical science, alterations (not fireproofing) for College of Dentistry..	25,500.00
Library	25,000.00
Medical science equipment for College of Dentistry.....	40,000.00
Old Millard Hall, fireproofing and equipment for College of Pharmacy..	75,000.00
Equipment of new Institute of Anatomy.....	84,000.00
Equipment of new Millard Hall.....	75,000.00
Equipment of Elliott Memorial Hospital.....	54,000.00
Maintenance of hospital for year ending July 31, 1911.....	33,700.00

The following are for the biennial period, one-half available for the year ending July 31st, 1912, and the remainder for the year ending July 31st, 1913:

Maintenance of the Elliott Hospital.....	\$159,200.00
General repairs	50,000.00
General library	50,000.00
For law library.....	10,000.00
For cataloging library.....	5,000.00
For periodicals and binding.....	5,000.00
For care of campus.....	6,000.00

PRESIDENT NORTHROP'S BIENNIAL REPORT.

The University of Minnesota during the year 1908-1910 has enjoyed uninterrupted prosperity. There has been a considerable increase in both the number of students in attendance and the number of teachers engaged in instruction. There has been an enlargement of the campus to more than double its former size, and plans have been formulated for the future campus and for the locating of the different colleges that will require many years to carry out in completeness.

In the fall of 1908 I tendered my resignation to the Board of Regents, the resignation to take effect July 1st, 1909. The regents were kind enough to express their unwillingness to have me leave the university and they requested me to withdraw my resignation. I did so, but with the understanding that some one should be selected to succeed me as soon as conveniently could be, and I have continued in office for nearly two years since my resignation was tendered waiting for some action which would relieve me of official duties. The situation has not been as disagreeable to me as might be supposed, because I have not been troubled with the conviction that any one was in special distress to have me out of the presidency, and because I have felt that some degree of caution and of careful investigation of candidates was desirable and that they delay incident thereto might well be risked without special apprehension of disaster to the university. In a word, I have felt that having been president twenty-six years, and not being conscious of physical or mental deterioration to any alarming extent, my remaining in office a year or two more or less could not be specially onerous and troublesome to me, and could not be in any degree damaging to the university itself; while it would give the regents the most ample opportunity to choose wisely my successor, and I have no doubt the final action of the regents will indicate the correctness and wisdom of my view.

DEATH OF REGENTS.

Three regents have died within the period covered by this report: Governor John A. Johnson, Judge Thomas Wilson and Hon. Sidney M. Owen. While this is not the place for extended eulogy of these men, it is proper at least to say that they were all good men, all useful to the university, all helpful in the counsels of the board, each in his own way. They all had enthusiasm for something of importance to the university, and each in his own way gave impulse to new measures or in a spirit of conservatism guarded the university from changes too radical for the general good. My years of association with these men as regents had greatly en-

deared them to me and their death brought to me a sense of personal bereavement as well as a keen sense of public loss. In the twenty-six years of my service as president of the University I have been associated with forty-seven different regents. Of these, seventeen are dead and thirty are still living. But there is no one left on the present board who was a member when I entered the board, and there are only two members of the present board besides myself, who entered the board previous to 1904. These two are John Lind, who first became a member of the board in 1892, and A. E. Rice, who became a member in 1896. The Board of Regents ought certainly to be in harmony with the spirit of the age, three-quarters of its members having been appointed for the first time within the last six years. The Board of Regents as constituted when I entered upon my duties as president was a remarkably able body of men and they do not suffer in comparison with the board as constituted at any later time. The members of the board were Governor Lucius F. Hubbard, Hon. Henry H. Sibley, president of the board; Greenleaf Clark, Cushman K. Davis, Knute Nelson, John S. Pillsbury, Thomas S. Buckham, John B. Gilfillan and David L. Kiehle.

LOSS OF MEMBERS OF THE FACULTY.

Professor Jabez Brooks having resigned the chair of Greek, which he had almost from the opening of the university in 1869, he was by a unanimous vote of the Board of Regents made professor emeritus. A few months later he died in California, sincerely mourned by his colleagues in the university, by the students whom he had trained and by a large circle of friends. A scholarly man, of sweet spirit and winning presence, he had been for many years a prominent figure in the university, and though, by reason of his advanced age his death could not at any time be a surprise to his friends, it was none the less unwelcome.

Professor Maria L. Sanford, who had held the chair of Rhetoric almost from the opening of the college, resigned in June, 1909. She, too, by unanimous vote of the regents, was made professor emeritus. She gave the commencement address at that time, to the great satisfaction of a large audience, an address that has been greatly appreciated since by all who have read it. Prof. Sanford is still vigorous, her mind undimmed, her speech as effective as ever, and she enjoys the esteem and honor of a multitude of friends in and out of the university.

In addition to these, Professor Frances S. Potter, of the English department, very unexpectedly resigned to take up work of a different character; and Captain Edward Sigerfoos, professor of military science, having held the position as long as he could under the rules of the war department, was transferred to his regiment. Assistant Professor B. M. Rastall, of the department of economics, Miss Mary G. Peck, assistant professor of English, J. E. Manchester, instructor in mathematics, and Dr. Jennings Litzenberg, assistant director of the gymnasium, all resigned and their resignations were accepted.

The university lost a very efficient dean of the college of engineering and professor of physics when Dean Frederick S. Jones accepted the call of Yale College to become dean of that institution. Professor John Zeleny,

who succeeded him as professor of physics, is so admirably qualified for the position as to leave nothing to be desired—and the new dean of the college of engineering, Francis C. Shenehon, has discharged the duties of his office so admirably the past year that the university is to be greatly congratulated on securing him for the vacancy created by the resignation of Dean Jones.

John W. Olsen, dean of the agricultural department for a short time, also resigned, and the university secured in his place A. F. Woods, of the agricultural department at Washington, and I think no better appointment could have been made if the regents could have had their choice of every man in the country. Harmony now prevails at the farm and the work of the whole agricultural department is going forward with an intelligence, wisdom and enterprise far beyond the usual experience of the past.

The sudden death of Dean Samuel B. Green, of the forestry department, in the summer of 1910, deprived the university of a remarkably able and enterprising scholar, who had been most efficient in developing the work in horticulture and forestry, the agricultural extension work of the university, the Farmers' institutes, and the horticultural society of the state. No other man in any of the faculties of the university was so closely related to so many important interests as he was; and his co-workers in all these enterprises relied most fully upon his farsightedness and indomitable perseverance, and the entire university mourned his death as a real calamity to the university and the state.

ADDITIONS TO THE FACULTY.

Dr. William Stearns Davis, professor of history.

Joseph M. Thomas, professor of rhetoric.

Captain E. L. Butts, professor of military science.

Nine assistant professors and eighteen instructors have also been added to the faculty, some of these being added to fill vacancies occasioned by resignations existing at the opening of the period of which this is a report.

VIEWS NOT NARROW.

The University of Minnesota is in hearty sympathy with that widespread public sentiment which demands that the secondary schools, the colleges and the universities shall do what they can to prepare students for successful work in agriculture, business and the mechanic arts. While not neglecting discipline and culture, it is prepared to recognize the importance of training for life and therefore of laying a proper foundation at least for vocational training. It has already done a great work in this direction in relation to agriculture and it has set before it as a special object to be aimed at an equally helpful training for the mechanic arts and for business and it specially desires to furnish educated men for all the various pursuits in industrial lines where educated men are needed. Its policy in this respect is a broad one, and to the full extent of the resources placed at its disposal, it will labor to invigorate industry by a liberal and technical training.

The attendance at the university in the year 1909-1910 was as follows:

	Men.	Women.	Total.
The College of Science, Literature and Arts.....	544	1,019	1,563
Six-year medical course (first two years).....	76	7	83
The College of Engineering and Mechanic Arts.....	407	.....	407
The Department of Agriculture.....	1,254	417	1,671
The College of Law.....	456	6	462
The College of Medicine and Surgery (including Hamline)	166	11	177
The College of Dentistry.....	195	.....	195
The College of Pharmacy.....	70	12	82
The School of Mines.....	118	.....	118
The School of Chemistry.....	81	2	83
The College of Education.....	32	70	102
The Graduate School	80	50	130
The Summer School (college section).....	126	189	315
	3,605	1,783	5,388
Less duplicates	19	.....	19
	3,586	1,783	5,369

THE COLLEGE OF SCIENCE, LITERATURE AND ARTS.

Dean John F. Downey makes the following report, which I commend to your careful consideration:

Two years ago the number of undergraduate students in the college was 1,484, and the number of graduate students taking their work in this college was 101; while now the number of undergraduate students is 1,705, and the number of graduate students taking their work in this college is 117. This does not represent all of the increase in students. The students of nearly all of the other schools and colleges of the university take part of their work in the department of the College of Science, Literature and the Arts, and most of these schools and colleges have had a considerable increase in the number of their students.

This increase in the number of students has necessitated an increase in the number of teachers. To do the work of the college two years ago we had 93 professors, assistant professors and instructors, while now we have 127.

This increase of 34 in the teaching staff and of 237 students in our own college and a proportionate number in the other schools and colleges whose students do part of their work with us, has created a necessity for additional class rooms, laboratories, offices and other rooms. In all departments we are overcrowded and in some the work is done at great disadvantage for want of room.

First of all, we need a new building for animal biology and botany. Many students elect these subjects and the quarters are crowded to overflowing and the facilities are quite inadequate. The removal of these departments from Pillsbury Hall would permit the expansion of the department of geology, which is now greatly cramped for room and hampered in its work. We confidently count upon this building, as the Regents two years ago promised to make it the first on the list of university buildings to be asked for at this time. This will be a large building, the basement containing aquaria and living animals, the first and second floors containing class rooms, laboratories, herbarium room, library, seminars, offices, etc., and the third floor containing a large museum, work rooms and store rooms. The equipment for such a building is expensive, and for building and equipment the appropriation should be not less than \$350,000.

Folwell Hall is now greatly overcrowded. This is partly due to the growth of the departments for whose accommodation it was built, and partly due to the temporary housing here of the college of education, the department of sociology and anthropology, the department of English, the postoffice, the state inspector of high schools, the alumni weekly and the student publications. When those having temporary quarters in this building are provided for in other buildings, the remaining departments can expand into the rooms vacated. But we must have some relief before that time. I therefore renew by recommendation of last June, which was approved by the board, but, for want of funds, the work was not ordered. The recommendation is as follows:

In all buildings we are so crowded and find so great a need for additional rooms that I wish to recommend the utilizing of excellent available space in the attic of Folwell Hall for two large rooms, viz., one for the literary societies (now occupying a room on the second floor) and one for Mr. Nichols' classes in rhetoric for engineering students (now occupying a room on the third floor) and two small rooms, one for the debating seminar (now on the first floor) and one for an office for Mr. Nichols and his assistant. The two stairways leading to the attic are like the other stairways in the building and these four rooms would be located at the heads of the two stairways. The large rooms would run across the entire building and have a large double window at each end. The rooms would be used only by men students, who would not regard as a hardship the climbing of three easy flights of stairs. This would accomplish two very important results:

1. It would release for other purposes a class room on the second floor, a class room on the third floor and a study on the first floor.

2. It would give to the literary societies not only a larger and better hall, but would provide them with a place where, at any time of day, members could rehearse without disturbing, as now, people in adjacent class rooms, seminars and studies. Architect Johnston went with me to the attic, examined the conditions and stated that he plan is entirely feasible.

Elliott Brothers, contractors, offered to do the work according to drawings and specifications of Architect Johnston, for \$4 290, including heating, wiring and piping, but not light fixtures and furniture. I therefore ask that you secure an appropriation of \$5,000. for the changes and for equipment. The work could be done next summer, so that we could have the rooms for next year.

Another building that is imperatively needed is one for the university post office, which building could consistently contain on the second floor quarters for the student publications, and thus release for departmental use the rooms which they occupy in Folwell Hall. The number of people using the post office is so great that, during the brief interval between all recitations, there is an uncomfortable and unseemly jam at the post office. There should be a small building the whole of whose first story, with many entrances and exits, should be used for the post office, and whose second story should be appropriated to the use of the student publications, viz., the Minnesota Daily, the Minnesota Magazine the Gopher and the Minnehaha. Such a building, with suitable equipment, would cost, I am informed by Architect Johnston, about \$55,000.

When a new chemistry building is provided, doubtless the present building can be satisfactorily remodeled for the use of other departments. The department of sociology and anthropology, English and philology, now crowded into Folwell Hall, could be accommodated in this building.

I cannot too strongly urge that the Board of Regents follow up the resolution adopted at the meeting of June 10, 1910, recognizing "the need of increased salaries and the further need of adopting a definite schedule of salaries." When vacancies now occur, it is very difficult to fill them with suitable men, on account of the low salaries paid. We cannot compete with the institutions with which we are accustomed to compare our university; and too often they get the men we would like to have, forcing us to take less desirable men, and occasionally good men of our faculty are enticed to other institutions by the larger salaries paid, with a definite scale of increase. It is most important that the board adopt, before the next annual adjustment of salaries, a scale of salaries and increases similar to that recently adopted by the Yale corporation or to that proposed in Mr. E. B. Johnson's report to the salary committee of the Board of Regents."

THE COLLEGE OF ENGINEERING.

The following matters of note concerning the faculty of the college are of interest and presented by Dean Shenehon.

Dean Frederick S. Jones resigned at the end of the college year 1908-9 and Francis C. Shenehon of Detroit, Michigan, a graduate of this college, and an engineer who had been for years in the service of the National Government as superintendent of important work was elected dean, his term of service beginning August 1, 1909.

The following persons were appointed or promoted to assistant professorships:

John V. Martenis.....	1909	W. T. Ryan.....	1909
S. Carl Shipley.....	1909	Otto S. Zelner.....	1910
A. S. Cutler.....	1908	Charles F. Shoop.....	1910

Prof. W. E. Brooke had leave of absence during the year 1908-9. He returned to duty September, 1909.

Assistant Professor H. H. Dalaker was assigned to the college of engineering for the year 1909-10, to replace Instructor Hovda transferred to the physics department.

Professor Frank H. Constant and Frank W. Springer were granted a leave on half pay during the college year 1910-11.

On account of ill health, Professor Arthur E. Haynes has been permitted to relinquish continuous work for such portion of the year 1910-11 as may be necessary.

The consolidation of the three departments of structural engineering, municipal and sanitary engineering, and railway engineering into a single department of civil engineering with the dean of the college as professor of civil engineering at its head was effected in 1909.

Some changes have been made in the curriculum of the civil department, having in view a summer camp for surveying to be initiated by the junior class in the summer of 1911.

A course in architecture was begun in September, 1910, the freshmen year alone being offered. It is proposed to expand the courses as the class advances, and ultimately develop a department of great importance. The location of the university in the heart of a population of over half a million people makes available the co-operation of a body of practicing architects of prominence, the cities themselves furnish excellent architectural examples, and the course will develop as the university enters upon its architectural renaissance. The demand for such a course is well marked.

The college of engineering began its five year course in the fall of 1908. The expected check in the registration occurred in 1909. That this was temporary is indicated by the much augmented registration in 1910. The success of the five year course is assured. It was purposed to terminate the old four year course with the graduation of the class of 1911. It was found however that enough students would be incomplete in this course to warrant a class of 1912.

Plans for a main engineering building and an experimental building have matured. Foundations will be laid in the fall of 1910; the buildings will be available in the fall of 1911.

THE DEPARTMENT OF AGRICULTURE.

Dean A. F. Woods reports as follows:

The department of agriculture is every year coming into closer touch with the great agricultural interests of the state. The college of agriculture has during the last year strengthened its entrance requirements and its course of study so that it ranks among the highest in the country in the breadth and thoroughness of its work, maintaining in all respects the most advanced university standards. The aim of the college of agriculture is now definitely recognized to be the training of investigators, teachers, and leaders in agricultural and rural affairs, who can measure up in scholarship, power, and efficiency with the best trained leaders in other fields. The need of better agricultural training for the young men and women who desire to devote their lives to the business of farming is being met through the schools of agriculture at university farm and Crookston, conducted under the direction of the agricultural department of the university. These schools with their shorter courses strong in agricultural technology and home economics give excellent preparation to the young men and women who are to build up the farms and country homes of our state. The great majority of the graduates of these schools are now engaged in that good work.

SCHOOL OF AGRICULTURE AT MORRIS.

An additional school of this type has been organized at Morris in accordance with the act of the last legislature assembly accepting the offer of the general government to turn over to the state for this purpose the buildings and grounds of the government Indian school formerly conducted there. The buildings have been repaired, a superintendent and faculty appointed and everything made ready to open school there October 5, 1910. Mr. E. C. Higbie, the new superintendent, is a graduate of the

university and has taken active part in agricultural education work in the state. In addition to the school a branch experiment station and demonstration farm have been organized. The farm contains two hundred and ninety-two acres.

SCHOOL OF AGRICULTURE AT CROOKSTON.

The school at Crookston suffered a great loss in the death of Superintendent Robertson on the eleventh of January, 1910. The work of the year was completed under the direction of the principal, Mr. Harrington, Mr. C. G. Selvig, a graduate of the university and an experienced teacher and administrator, was appointed superintendent and took charge of the school and station August 1, 1910. A new administration building and a girls' dormitory will be completed in time for use at the opening of school October 3, 1910.

SCHOOL OF AGRICULTURE, UNIVERSITY FARM.

A new dormitory authorized by the last legislature for the girls of the school at university farm, will be completed early in October. This will provide for about fifty girls. Additional dormitory space will be needed by another year.

DORMITORY NEEDED FOR AGRICULTURAL COLLEGE GIRLS.

A dormitory is also needed by the college girls. St. Anthony Park is not thickly settled and it is increasingly difficult to find good places to board within a reasonable distance of university farm.

EXTENSION WORK.

Extension work, for which a special fund was provided by the last legislature, has been conducted in close co-operation with the agricultural college and experiment station and the farmers' institute work. Through this agency the practical results of experimental work are being taken directly to the farmers in a way that they can grasp quickly and profit by. The demand for help has been greater than could be met with the funds and men available. The press of the state has been furnished regularly with agricultural information of interest and value to farmers. About eight hundred papers use the material. Twenty demonstration farms have been organized under the supervision of our experts and a correspondence course in agriculture has been arranged. This work could be enlarged with great profit.

THE EXPERIMENT STATION.

The clearer recognition on the part of the farmer and the people in general of the importance of preventing waste of soil and losses in crop production has emphasized the importance of the investigations of the experiment station and made it clear that this work should be enlarged to more perfectly meet the needs of our rapidly developing agriculture. The plant pathologists have perfected a practical method of preventing grain smuts, have made great progress in developing a rust resistant variety of

wheat and have organized an efficient seed control laboratory with special reference to detecting and preventing the introduction of dangerous weeds.

The entomologists have been engaged in directing the fight against injurious insects especially the grass hopper and brown tail moth, preventing the introduction into the state of the latter pest.

The plant breeders have distributed seed of improved corn, wheat, and other grains and have many valuable strains in process of improvement.

The experts in dairy and animal husbandry have continued their investigations in animal nutrition with special reference to meat production. The results promise to be as valuable as were those secured by the work conducted with dairy stock which work has revolutionized the practice of feeding dairy animals.

For purposes of better co-ordination all of the work on animals including poultry has been grouped in one division of dairy and animal husbandry with Prof. T. L. Haecker in charge.

A new dairy barn has been built and plans completed for remodeling and enlarging dairy hall and the animal nutrition laboratory has been remodeled and enlarged.

The agricultural engineering division has given special attention to drainage problems. The drainage system for the Crookston substation farm was completed and plans for the drainage of the Grand Rapids experiment farm were prepared and the work started. Assistance has also been given to many farmers in the preparation of drainage plans for their farms. All of the engineering, mechanical, and shop work at university farm has been consolidated in this division for purposes of better co-ordination and administration.

The work of the division of agricultural chemistry and soils has been somewhat handicapped owing to a number of changes in the staff, but the vacancies have all been filled and satisfactory progress is now being made in a number of important lines of work. In accordance with an appropriation of \$6,000, made by the legislature at its last session, an experimental industrial alcohol plant has been established at this station and will be ready for operation about January 1, 1911. In accordance with an appropriation of \$1,000, made by the legislature at its last session, a flour and grain testing laboratory has been installed in the chemistry building and is now in operation. A soil survey of twenty-two demonstrations and four experiment station farms has been started in order to more definitely study the best methods of carrying on such work to secure results of the greatest practical value to agriculture and to determine the best plan for a more general survey. The work includes a study of the physical, chemical and biological constitution of these soils and the relation of these factors to crop production.

The veterinary division has had four important projects under way. The anti-hog-cholera vaccine work includes the production, introduction, and distribution of an efficient vaccine; study of lower cost for stock owners; methods of vaccination; and conditions involving potency of vaccine. This project is still under way. The anti-tuberculosis vaccine work has been a study of the practical value of von Behring's anti-tuberculosis

vaccine when used under ordinary farm conditions. This project is nearly completed. Stable ventilation work has been under way for several years. This is confined to research work with confined animals. Much original and important, practical information has been secured. This project is still under way. In swamp fever investigations it has been shown that the virus is capable of passing through ordinary germ filters; that swamp fever is not due to intestinal parasites as held by some authorities; that the disease is probably not transmitted by ordinary stable exposure; with a presumption of infection by biting insects.

The division of horticulture has given special attention during the last two years to potato and vegetable investigations. This has required the work of one assistant most of the time. Two regular bulletins and one extension bulletin on potatoes have been issued. The fruit work of the station has gradually been transferred to the fruit breeding farm at Excelsior. This will give more opportunity at the central station for work with ornamental plants and the fruit farm gives much better advantages for carrying on investigational fruit work. This farm has been equipped with the necessary buildings, including barn, storage cellar, greenhouse, and residence for the superintendent. The land has been prepared for horticultural crops, and large quantities of seedling apples, plums, and small fruits will shortly come into bearing. Several hundred grape, strawberry, and raspberry seedlings fruited for the first time this year. Tests of new varieties of fruits and other fruit experiments will be carried on at this farm as far as possible.

THE DEPARTMENT OF FORESTRY.

The importance of the forestry work of the university caused the Board of Regents to enlarge this work from a division to a department with Prof. S. B. Green as dean, in accordance with the suggestion made in my report for 1909-10. The Cloquet forest has been acquired by the state, largely by gift from public spirited citizens and plans for its management have been perfected and are in operation. This forest gives the state a valuable object lesson in proper forest conservation and a means of conducting important forest investigations. The forestry work at Itasca has been enlarged along the lines of forest management and the summer school continued. At university farm a laboratory has been equipped for the study of the preservative treatment of farm timbers especially fence posts. Lack of funds has prevented the development of this project as its importance deserves.

DEATH OF DEAN GREEN.

The forestry work in particular, the department of agriculture, the university and the state, just at the close of the last fiscal year, suffered a great loss in the death of Dean Samuel B. Green. His fine personal qualities, great energy, wide knowledge and optimistic spirit, were assets of the greatest value to the state. His loss is keenly felt by our faculty, the Board of Regents, and throughout the state, and by many in other states who knew him and his work.

DEATH OF FORMER DEAN LIGGETT.

During the last year also, the university and the department of agriculture in particular, lost a friend and wise counselor in the death of former Dean Liggett. Most of the progress made in the development of the agricultural department was during his administration. The good work which he did is a lasting tribute to his memory.

OTHER IMPORTANT CHANGES IN PERSONNEL.

The resignation of Prof. Harry Snyder from the division of agricultural chemistry and soils was a great loss to our institution. His place was filled by the appointment of Prof. Ralph Hoagland, who has taken up the work with energy and ability.

On May 1, 1910, Mr. J. A. Vye, for many years secretary of the station, resigned to go into private business.

THE AGRICULTURAL EXTENSION DIVISION.

The Agricultural Extension Division, established by the last legislature for the purpose of carrying agricultural information to the people of the state, has taken up the work along the following lines:

PUBLICATIONS.

A Press News sheet is published twice each month and sent to the papers of Minnesota and adjoining states. This sheet gives timely items of agricultural information regarding the work done at this and other agricultural institutions, and by successful farmers. Thirty-five hundred copies are published each issue.

Every three weeks a page of illustrated agricultural matter is furnished to the American Press Association. The page is sent in plate form, at \$1.00 per page, by the Press Association, to forty or more papers in the state.

Last spring, owing to the poor conditions of seed corn, 25,000 copies of a large illustrated poster were published and sent to farmers. This poster presented in a concise manner the importance and methods of testing corn, and was copied in full by four of the leading farm papers in this state, giving it a circulation of over 100,000 in the state. Last September a similar poster was gotten out for the purpose of encouraging farmers to save their seed corn early before frost could injure it. Twenty-five thousand copies of this poster were sent out. An eight-page bulletin on the selection and storing of seed corn was issued in connection with the poster, and distributed with it. Both the bulletin and poster were widely copied by agricultural papers.

A popular bulletin, consisting of from eight to twenty pages and presenting in a practical and concise way some timely agricultural subject, is published each month. These bulletins are sent free to anyone in the state desiring them. There are now 22,000 names on our mailing list, and the list is growing rapidly.

THE INDUSTRIAL CONTEST.

A special representative has been employed since the organization of the division to look after the boys' and girls' industrial contest. This is a contest in the production of grain, corn, fruit and vegetables, and in sewing and baking, among the boys and girls of the state. Up to July 30, 1910, this representative and others assisting him had visited 26 counties, 331 rural schools, and had spoken to 16,000 boys and girls, teachers and school officers. Forty thousand copies of Extension Bulletin No. 3, giving information regarding the contest, were published and distributed to various counties. Representatives of the Extension Division in home economics spent one week in each of 27 summer schools, giving instruction in sewing and baking. Agricultural instructors from this division spent three days in each of 24 summer schools, giving instruction in agriculture. This was to enable rural school teachers to more effectively carry on the work of the industrial contest, in which at least 15,000 boys and girls in forty different counties in the state took part during the last year.

LECTURE COURSES.

Up to August 1, 1910, 268 lectures in home economics and agriculture were given by Extension workers in high schools of the state. These lectures were attended by students from the high schools, and by men and women from the surrounding country. A total of 18,523 people were reached in this way.

DAIRY SHORT COURSE.

A one week course in dairying was given to 26 dairymen in Todd county. During the week, the dairies owned by the members of this class were visited by the instructor, and the class, and the housing, improvement and feeding of the herds studied. So thorough was this work that a representative of the division, visiting the farms of the members of the class, in June (four months after the course) reported everyone of the members of the class putting into practice some of the principles learned during the course. Every member was reported to be weighing and testing his milk.

FARMERS' CLUBS.

An effort has been made to organize farmers' clubs, with a view to encouraging study, co-operation and social intercourse among their members; each club represents a small locality, as a rural school district. With this end in view, Extension Bulletin No. 1 was issued, which gives explicit information for organizing these clubs and a statement as to what the clubs already organized have done and are doing. There are over one hundred of these clubs now organized, and representatives of the Extension Division attended 71 local meetings in connection with these clubs, with a total attendance of 7,853. Each month since June, 1910, a list of subjects suitable for discussion by these clubs in their monthly meetings has been sent to them. This list suggests several suitable and timely topics and gives references from which the information needed can be obtained.

DEMONSTRATION FARMS.

Two of the men working for Prof. Boss in the Division of Agriculture, have been employed part by the Extension Division, for the purpose of organizing demonstration farms. Eighteen of these farms have been established and operated under the direction of extension workers in co-operation with the farmers. Some representative of the Extension Division visits each one of these farms at least once each month and usually once every three weeks.

CORRESPONDENCE COURSE.

In accordance with the law establishing this division, an attempt has been made to work up a correspondence course covering the subjects now offered in the School of Agriculture. Several of these courses are now practically complete, and 25 or 30 requests for the courses are on file. We expect to have these ready by January 1, and feel confident there will be as many applicants for the course as we can take care of, as soon as the fact that such courses are available is made known generally.

DEMAND FOR THE WORK.

There is a constantly increasing demand for this class of work along practically every line we have been working. Requests for Extension bulletins are coming in at the rate of from 500 to 1,000 per week; and our mailing list should be, and no doubt will be, at least 100,000 within a couple of years. Requests for lectures and special field work is greater than we can supply with our present force.

THE COLLEGE OF LAW.

Dean W. S. Pattee reports as follows respecting the college of law.

During the last two years the college of law has been steadily progressive and especially along the lines of enlarged entrance requirements, additional teaching force, and increased library facilities. During the year 1908-9, being the last year under the former educational requirements for entrance demanding high school education for matriculation as a regular student (those entering for a degree) 270 matriculated in the freshman class as regular, and 65 entered as special students, not having completed their high school education, making in all 335. Beginning September, 1909, the entrance requirements for regular students demanded, in addition to a high school education, one year's academic work in the college of science, literature and the arts, of the university or in some other college of equal grade; but persons having completed a high school course covering a period of four years, were permitted to enter as special students. Under these regulations there matriculated during the year 1909-10 98 regulars and 50 specials, making in all 148, and during this year 1910-11, 85 students have entered as regulars, and 52 as specials, making 137. The increased requirements have therefore diminished the number of persons entering the college by a few more than one half.

Provisions have already been made whereby, beginning September, 1911, two years of college work will be required for entrance as a regular

student; a further decrease of students may be reasonably looked for at that time. But while the numbers attending the college are thereby diminished, it is believed that these additional requirements will secure a higher grade of professional education, and that it will in time favorably affect the bench and the bar of the state and northwest.

An additional professor of law has been placed upon the faculty of the college, Robert S. Kolliner, who devotes his time exclusively to the work of the department. Being a successful practitioner of some eighteen years standing at the Minneapolis bar, and for several years a lecturer in the college, his appointment upon the faculty adds strength and efficiency to the teaching force of the school. And besides his appointment the services of six prominent practitioners at the Minnesota bar have been secured, and, while their courses of lectures are necessarily short, yet they add to the teaching power of the college.

The library facilities have been largely increased during the last two years. About five hundred volumes of text books and reports have been added, so that the demand of the regular classes for proper authorities is fairly met, but several hundred more volumes are required to make the library such a one as a great university law school should possess.

The effects of increasing the courses of study in the night school to four years have been clearly manifested during the last two years. Such increase of the time required of evening students has not diminished the numbers of students in attendance to any great extent, while it places the night school in point of efficiency and thoroughness upon substantially an equal footing with that of the day.

The night school has proved to be one of the most useful features of the college. Scores of our ablest students and most influential graduates have been members of the night classes. Many of that class of students are excluded from the benefits of the college by the increased entrance requirements. I believe it is worthy of careful consideration whether some provision should not be made for that class of men, owing to their advanced age and experience, even though they may not be able to meet the present entrance requirements.

THE COLLEGE OF MEDICINE AND SURGERY.

During the past biennial period, no department of the university has surpassed the College of Medicine and Surgery in substantial progress. While its advances have been made possible through the material aid which the college has received from legislative appropriations and private beneficence, this progress is part of a great educational movement in which the medical profession of the entire country is engaged and in which the faculty of this college stands among the most progressive and intelligent leaders.

A number of powerful agencies are contributive to this movement. Notable among them are the Educational Council of the American Medical Association, the state boards of medical examiners in Minnesota and other states, and the Carnegie Foundation for the Advancement of Teaching. The great universities of the country are the chief factors, however, in this progress; for so rapid has been the rise and so great has been the development

of modern scientific medicine, within the past quarter of a century, that medical education can no longer be fitly conducted save under the fostering care and with the ample opportunities afforded by state-supported or highly endowed schools. Such education, involving laboratory methods of instruction, in the foundational and clinical branches alike, is necessarily expensive and prolonged. Tuition fees, increased though they have been in this and other leading colleges of medicine, can not now be expected to cover more than a minor part of the cost of medical education. As an economic result, the day of the private medical school is gone or is fast going, and, educationally speaking, it is well. The state wisely governs the practice of those professions which deal with human health and human life, and it may very wisely control also the preparation for the practice of these callings, in which so much of individual and social welfare is at stake. It is of the utmost importance to the community that it should have ample guarantee of the fitness of the men and women who engage in the practice of medicine.

Modern medicine is a science. It is no longer a matter of theory or dogma exploited by sectarian schools. The anatomy, physiology and chemistry of the human body are one and the same under all systems of healing. The study of disease—its causation and its prevention—is unaltered by isms. While there may still be room for certain differences in methods of treatment, they are of minor consequence and they should all be subject to the same scientific tests, by which they must ultimately stand or fall.

All students of the College of Medicine and Surgery are free to attend their courses and those electing them are given a special degree. Referring to this solution of the homeopathic problem, Dr. H. P. Colwell, secretary of the council on medical education of the American Medical Association, says: "From practically all standpoints, I would compliment Minnesota upon holding the lead in medical standards and in the control of medical education at the present time."

The unification of medical teaching at the State University, for the entire State of Minnesota, following the absorption of the last of the private medical colleges, formerly existent in the state, is an accomplished fact and subject for congratulation. Abraham Flexner, in the Report of the Carnegie Foundation on the medical schools of the United States and Canada, says that Minnesota is the first state in the union to have "solved practically all of the vexed problems of medical education." Henceforward the state, and the state alone, is responsible for upholding and advancing the standards of medical teaching in the state. The Minnesota Board of Medical Examiners stands pledged to demand the same qualifications of incoming practitioners as the state requires of her own sons. This means that the standards of medical education must be set high.

Adequate teaching buildings, well-equipped scientific laboratories, a sufficient faculty force not only to teach, but to prosecute medical research, upon which all advanced teaching and practice depend, and, above all, a teaching hospital service, the clinical laboratory, without which, at the present day, no great school of medicine can be maintained, are essential factors in the development of the college.

It is no longer possible for medicine to be properly taught unless the

college or university controls its own hospital system. Private hospitals, however well-disposed toward the university, can do little to supply its clinical needs. City and county hospitals are valuable allies of the medical schools, but they do not seriously regard, as yet, their educational function and the clinics they afford are a matter of privilege and not of right. Moreover, their standards of medical service are not set sufficiently high, nor is their equipment usually adequate to serve the ideals of a teaching hospital.

The foundations for the university hospital system have been laid in the gift of the Elliott Memorial Building, now at point of completion, to which other pavilions and service buildings must soon be added. The immediate clinical needs of the college have been met in a measure, in the meantime, by the equipment of a number of temporary buildings, housing patients and nurses in limited number. This temporary service has already proved, not only how indispensable is the teaching hospital to the college, but how important an institution it is destined to be to the state at large. It admits only free patients and from all parts of the state. Their indigence is certified by local physicians and both the public and the profession are thus protected. Already the demand for admission to the University Hospital has been great enough to indicate that many times the available number of beds can be well and wisely filled. With the most careful selection of cases suitable for clinical observation, scores of desirable patients have been turned away. That those who are unable to pay for medical service and hospital treatment should not merely be cared for, without charge, but should receive the highest order of available help, while, at the same time, they serve as the object lessons of medical instruction, is manifestly a public economy. Such a hospital system will repay the state its cost of maintenance in lifting the burden of the indigent sick from the local community and in returning to it the many, restored in health and, therefore, competent of self-support. It is confidently expected that state legislatures will recognize the wisdom of liberal provision for an enterprise which is, at once, educational and beneficent.

The University Hospital is in charge of a permanent committee of the faculty, which is in the nature and office of a board of directors, under the authority of the Board of Regents. An able superintendent of hospital has been secured in the person of Dr. L. B. Baldwin, an alumnus of the college and late superintendent of the State Hospital for the Insane, at Jamestown, North Dakota.

The initiation of the hospital service has given the opportunity for the organization of a training school for nurses, in charge of the medical faculty—the first school of the kind to come under direct university control. The event is warmly welcomed by the profession of nursing throughout the country and the example has already been followed by one or two other state universities. Miss Louise M. Powell, recently of Columbia university, a woman of wide experience in this field, has been chosen as superintendent of the new training school.

The university free dispensary, which has been sustained, under serious difficulties in the past, on account of its isolation as the sole clinical asset of the college, has come under the new hospital organization, as its outpatient department, and has been well equipped and newly manned. It is

desirable that legislative authority should be given for the sale of the present dispensary ground and building, in order that the out-patient and in-patient departments of the hospital may be brought into nearer location and closer touch upon the new campus.

The beginnings of a hospital system under its own control, as well as its advanced standard of preliminary culture and its well-equipped and well-conducted laboratories, have brought the University of Minnesota, at one step, into the front rank of the medical institutions of the country.

The two new laboratory buildings provided for this college by the last legislature have been delayed by the slow evolution of the new campus, but plans for them have been completed and they are now in process of construction.

A third building of this type, for the suitable housing of the institute of pathology and public health, on the new medical campus, in close conjunction with the hospital, is imperatively needed. The building it now occupies, on the old campus, is an excellent one and will readily serve the uses of other departments now inadequately accommodated.

A recurrence of fire in Millard Hall has seriously damaged the building and has put it partially out of commission. A new non-combustible roof has been placed upon it and it awaits such appropriation as may be necessary to fireproof it throughout.

Since this building is to be occupied by the College of Dentistry or Pharmacy, upon its complete vacation by the medical school, the faculty has asked and received of the board of regents permission to name one of the medical buildings, now being erected on the new campus, "The New Millard Hall." The board and the faculty concur in desiring that the name of the first dean and the most active organizer of the college, should be thus more permanently honored—a fitting tribute to the memory of one who served his day and generation faithfully and well.

The College of Medicine and Surgery has been reorganized, within the past two years, by the concentration of its work under nine departments of instruction, the chiefs or directors of which constitute its executive faculty, while all its teachers are represented in a general faculty numbering 130 members. Each department maintains its staff organization with effective working results.

An original member of the medical faculty, Dr. Amos W. Abbott, has recently resigned his active service of nearly a quarter of a century in the university and has been named as a Professor Emeritus.

The faculty and the university, as a whole, have suffered a severe loss in the recent death of Dr. Alexander J. Stone, Professor of the Diseases of Women throughout the life of the college; a man of rare qualities of heart and mind and one to be always remembered as the pioneer of medical education in the State of Minnesota—a teacher of medicine and a friend of medical teachers for forty years.

The history of the department of medicine should fitly record the passing of one, who, while not a member, at any time, of its teaching body, was the original proponent of its creation, one of its appointed organizers and a member of its first examining faculty, Dr. Charles N. Hewitt, of Red

Wing, a sanitarian of great ability and the first executive officer of the State Board of Health. Dr. Hewitt's death recalls his many public services, not least of which he rendered to the cause of medical education, in laying the foundations of which, in this state, he builded even better than he knew.

Testimony to the continued progress of medical teaching in Minnesota is to be found in the announcement, recommended by the faculty and authorized by the Board of Regents, that hereafter, five years of medical study, including a year of hospital-interne service, will be required for the attainment of the degree in medicine. The new hospital system makes this step possible; which it is hoped will also result in standardizing, as clinical allies of the university, other hospitals of the state.

A final reference should be made to the pressing need for the development, in this college, of post-graduate and research work. In the former field, a waiting opportunity is to be found for the education of public sanitarians. Medical and lay officers of public health, of specialized training, are of urgent need, and the progressive enthusiasm of the faculty is only wanting the means to engage in the duty of its supply.

In the latter field—that of medical research, opening up the way to the preventive medicine of the future, there is need of financial support. There are laborers, not a few, who, with suitable means at their command, will enter into this scientific vineyard. The members of the faculty are already producing a considerable amount of creditable research and, under more favorable conditions, a larger number of both teachers and students should be drawn into this important field.

The university owes to the Minnesota Academy of Medicine, the acknowledgment of the first contribution to this end in the way of a research fellowship, affording an income of \$250 to \$300 a year, for the encouragement of workers.

I doubt not that, in the near future, the state will deal even more generously with the department of medicine than it has in the past. The maintenance of this college means in very large measure the conservation of the public health, the most valuable asset of the commonwealth.

THE COLLEGE OF DENTISTRY.

The College of Dentistry is doing excellent work under the able leadership of Dean Alfred Owre, and it only waits for the completion of plans now contemplated by the regents for securing enlarged quarters, to meet the full demands of a constantly increasing number of students who desire to study and work in this college. For some time past the number who were permitted to enter has been limited by reason of inadequate room and equipment. But the college has made a most excellent reputation and its classes are sure to be greatly increased in size whenever the accommodations will warrant it.

COLLEGE OF PHARMACY.

Substantially what has been said of the College of Dentistry is true of the College of Pharmacy. It has done excellent work under Dean Wulling—it can profitably take care of larger classes as soon as it gets large enough

quarters, plans for securing which have been completed, and with the larger accommodations it can surely draw larger classes—as large, certainly, as even the increased accommodations will admit.

DEAN WULLING REPORTS AS FOLLOWS:

Some time ago the Board of Regents authorized the appointment of a professor of pharmacognosy at a salary of \$2,500 a year. No suitable man of large experience could be secured for this salary. The search for a suitable man finally resulted in the appointment of Dr. Edwin L. Newcomb, first assistant of the professor of pharmacognosy of the Philadelphia College of Pharmacy, Dr. Kraemer. Dr. Newcomb has not the maturity that the college hoped for but possesses the promise of soon growing into one of the strong teachers of pharmacognosy. He will have full opportunity to develop the department and a year or two will demonstrate his fitness or otherwise for the position. The regents have just authorized the expenditure of \$1,000 for additional equipment for the department of pharmacognosy.

Only progress can be reported in the matter of fitting Millard Hall for the purposes of the College of Pharmacy. It was hardly expected that the college could occupy the building before next fall, but on account of the delay in settling the campus extension matter, sites for the medical buildings could not be selected at as early a time as was hoped. However, the sites have now been determined upon and the buildings will be under way shortly so that it is hoped Millard Hall will be ready for the College of Pharmacy in the fall of 1911. A fire occurred in Millard Hall on the evening of December 24, 1909. The roof and part of the upper story were destroyed, but were afterwards temporarily repaired so that the College of Dentistry and the Department of Pharmacology of the medical college, which now occupy the building, were enabled to go on with their regular work though in a hampered way. It has just been decided by the regents to have a fireproof steel roof with slate exterior built over the standing walls to make the upper floor available for the work of the dental college for the coming year. The contract for this work has already been let and work is to be completed by September 3. Beginning immediately after the closing of school of 1911, the entire interior of Millard Hall is to be torn out and replaced by fireproof construction. This will make it possible for the college to remodel the building to suit its needs in many respects.

Permanent equipment to the value of around \$1,200, has been added to the college.

Mr. Robert L. Moreland very kindly donated to the college a series of bound and unbound volumes of the Chemist and Druggist, Merck's Report, Western Druggist and Pharmaceutical Era. The college feels very grateful for this donation, which has already proved itself to be a valuable addition to the college library. Mr. S. W. Melendy has donated the usual annual volume of the Apothecary.

During this, the fourth year in which the dispensing department of the University Free Dispensary has been in charge of the College of Pharmacy, a larger number of prescriptions have been dispensed than in previous

years; the total number approximated 8,040 prescriptions, an increase of 340 over last year. A large percentage of these prescriptions are formulated ones not calling for proprietaries. The senior class dispensed under proper supervision all of them. This experience is of the most valuable kind and should make the graduates of this college good prescriptionists.

When the Homeopathic Medical College was abolished something over a year ago, the quarters which the college occupied in the dispensary were assigned to the regular medical college. The dispensing department was able to enlarge its quarters by the acquisition of the adjoining room. The partition was removed and some fixtures and glassware and other equipment added to increase the facilities for dispensing. The work is now very well systemized. Miss Hazel Maxwell, '09, was the added assistant during last summer, and Mr. Emil G. Souba, '10, has just been appointed to assist in the drug room during the present summer. This additional assistance in the summer is necessary since the dispensary is kept open the year round and students of course are not in attendance in summer.

There has been a greater competition for the graduates of this school this year than ever and salaries offered have been higher than ever before. All graduates available for positions have been satisfactorily placed on even better conditions and terms than heretofore. The available men have had the opportunity to make selections in one case among seven offers and in another among a greater number. There have again been several calls for graduates of the college for positions in manufacturing laboratories, stock food manufactories, assay laboratories, a creamery and teaching institutions. None of these demands, but one, could we supply. Notwithstanding the repeated urging on part of the faculty, the graduates do not prepare themselves for the higher positions which would bring them more remuneration and provide greater leisure for them besides affording better opportunities for advancement than are usually offered in drug stores.

The scholarship of the student-body was not quite as satisfactory during the past year as has been the rule, and this despite the fact that nearly all students are high-school graduates or have equivalent training. Unfortunately, it was necessary for the faculty, a number of times, to enforce the disciplinary rules; in each case with satisfactory results. No reason can be assigned for the slightly lower grade of scholarship for the past year. The fault was surely not with the faculty, for all members of it worked harder even than in previous years and it cannot be denied that the students as a whole were diligent. The usual complaint of too much work has reached the faculty a number of times during the year, but if the faculty would reduce the amount of work from time to time to please the students, the reduction would reach a point where the students would acquire only very little training and would take away with them very little information. Miss Skartum's scholarship was above the average. Her popularity among the students earned her the distinction of election to the class secretaryship. The class and faculty sent floral tributes to the funeral and appointed her two women classmates, the Misses Anastasia M. Remes and Pauline B. Zalesky, to attend the funeral as their representatives. Mr. Kozo Yamagishi, the Japanese student from Kobe, Japan, was accidentally killed by a falling door blown from a pile of lumber on Hennepin avenue and Ninth

street, Minneapolis, on the windy Sunday afternoon of March 6. The loss of Mr. Yamagishi was greatly felt by both the student-body and the faculty. He was a most earnest and conscientious student and well up near the head of the class. The funeral services were held in Minneapolis under the auspices of the Twin City Japanese Association. The Reverend J. M. Montgomery conducted the services. The writer and some of the Japanese friends of the departed spoke appropriately. The body was deposited at Lakewood cemetery for awhile, and then cremated. The ashes have since been sent home to Mr. Yamagishi's parents at Kobe, Japan. Since Mr. Yamagishi had almost completed the work of the course, the faculty recommended to the regents that a diploma be issued in his name and sent to his parents. A diploma was issued and forwarded to the parents. Shortly after Mr. Yamagishi's death, appropriate letters of condolence were sent by the faculty and by some of the classmates.

That the three-year course is growing in popularity is evidenced by the fact that a larger number have elected to do their work in three years. This points to the probability of success of the four-year course that is soon to be instituted to lead to the degree Bachelor of Science in Pharmacy.

The names of twelve young women were on the roll.

The following states were represented by students: Minnesota, Iowa, Wisconsin, North Dakota, South Dakota, Montana, Tennessee, Kentucky, Japan, Colorado and California.

The total enrollment the last year reached eighty-two. The number of students who dropped out of the course was somewhat greater than in former years. The chief reason for discontinuance was the inability to carry the work successfully. Of last year's juniors, nineteen did not return for senior work (most of these were taking a year's practical experience between their junior and senior years); one student was suspended last year and was not reinstated; two young women took up nursing; three left the ranks permanently for other fields of work.

Two deaths occurred in the senior class. Miss Juanita M. Skartum left for her home at Lake Benton at the holiday vacation time. She was shortly after taken ill with typhoid fever and died February 17.

THE SCHOOL OF CHEMISTRY.

Dean George B. Frankforter reports as follows:

SCHOLARSHIP AND CULTURE.

One of the prime objects of the chemical work offered in the university is the training of the great masses of students in the science of chemistry in such a way that the knowledge acquired will give them a broader and a greater depth of scholarship. We have likewise kept in mind the training of men and women as teachers of chemistry. That we have been successful is evident from the number of both men and women employed in the various universities, colleges and high schools.

PURE SCIENTIFIC WORK.

Purely scientific research work is still of the greatest importance to the country. Much scientific work of apparently little economic value must

always be done from the fact that work which appears to be of only scientific interest to-day may be of the greatest economic value tomorrow.

That we are graduating highly trained scientific men is evident from the results of civil service examinations. Three years ago the University of Minnesota won honorable places in the treasury department. Two years ago, in competitive examinations for positions in the Bureau of Standards at Washington (the most coveted scientific positions in the country), in which nearly all of the universities of the country were represented, the University of Minnesota won first and second places. This last year, under similar conditions for new positions created in the Bureau of Standards, the University of Minnesota again won first and second places. It is not flattery to say that the University of Minnesota stands second to none in the whole country both for scholarship in chemistry and in research work.

INDUSTRIAL RESEARCH WORK.

Scientific research work of industrial nature is at the present time of the greatest importance to the state and to the nation. This must be so on account of our almost unlimited natural resources. Work along various industrial lines has been in progress for a number of years. Briefly, some of these subjects are:

The Utilization of Waste Wood. This work was begun some fifteen years ago and continued up to the present time. From the scientific point of view this work is now completed and there only remains the putting of the processes into practical operation. The importance of this work may be realized when lumbermen by the most improved methods of today actually waste 60 per cent of the trees of our forests.

2. Miscellaneous Work. Several other lines of research work have been in progress during the past three or four years. Among these I may mention the following: Electrochemistry, including calcium and boron; The chemistry of the terpenes and resins in which a number of new compounds have been made.

I beg to state, in conclusion, that this research work is carried on under most unfavorable conditions. First of all, on account of the very heavy work due to the large number of students representing practically every college in the university. Second, on account of the condition of the laboratories which are absolutely unfit for the work. Students work in crowded laboratories charged with poisonous gases positively dangerous to human life. Furthermore, the research work mentioned above is being done in small unventilated rooms which were never intended to be used for laboratories.

THE COLLEGE OF EDUCATION.

Dean James reports as follows:

"Since my last report the enrollment of the College of Education has more than doubled, and thirty graduates received the bachelor's degree last June. The college gave instruction in addition last year to about two hundred and fifty students from other schools of the university. Through this office last spring all of our own graduates and about twice as many more graduates of other colleges of the university secured teaching positions where

they might be of most service to the state, and at a saving to them of agency fees which would have amounted to some thousands of dollars. All of our graduates are in quick demand, and we could give a professional training to many more young men and women if our facilities were greater. We stand particularly in need of additions to our teaching force in the subjects which have recently been introduced into the public high schools of the state.

The work of our practice school has increased in scope and improved in quality during the past two years, and, even though on account of very limited space, equipment, and teaching force we have hardly made more than a beginning, it is already recognized by the teaching profession of Minnesota as a vital part of our training. The school has so commended itself to the professors of the university that several from different faculties have placed their children in it. The imperative need of adequate housing and equipment is more clear than ever. In consideration, however, of the uncertainty as regards the final conformation of our campus and of the impossibility of saying just now in what part of it the college may best be ultimately placed, I would respectfully suggest that our needs can be met for some years if we are assigned the present Chemistry building, with an adequate allowance for remodeling and equipping (\$60,000). If, however, the School of Chemistry does not receive a new building from the present legislature, I would respectfully urge that a special building appropriation for this college be requested.

This college has been in receipt for the past two years of five thousand dollars annually for extension work. We have in this way been enabled to maintain one man in the field, who has brought the help of the university directly to more than ten thousand teachers, distributed through most of the counties of the state. In addition, the other instructors of the college have, under your direction and approval, been active participants in teachers' meetings throughout Minnesota, and have contributed to the health of the system of public instruction by frequent visitings of schools and consultations with school officers. I respectfully urge, therefore, that the regents plan to continue this new activity of the college and make suitable estimates for it.

The officers of this college have, from its first establishment, been in charge of the summer courses conducted at the university by the Department of Public Instruction. This school has enrolled between four and five hundred high school teachers each year and twice as many teachers from the earlier grades.

On my recommendation, the state superintendent is planning to transfer the elementary courses to the School of Agriculture, making our equipment on this campus available for more advanced work. The university council has already transmitted to you a request that an appropriation be asked for vacation courses, to be selected from the various schools of the university and administered under the direction of this college. An annual allowance of seventy-five hundred dollars would be sufficient, but not more than is needed, that the university may respond to this insistent and increasing demand."

THE FRATERNITIES.

Professor Edward E. Nicholson has given much attention to the condition and future prospects of the fraternities in the university. He has done this at my request. The following is his report to me as to what has been done.

In accordance with your request for the main facts relative to the inter fraternity council, I submit the following:

"For some time, among fraternity men, there has been a general feeling of unrest and dissatisfaction with conditions as they existed here; a feeling that the fraternities were capable of accomplishing much good for themselves and the university, but that at present they were doing neither.

Your call, in the spring of nineteen hundred and eight, for a meeting in your office of representatives from each Greek letter fraternity, was the crystallizing point of this sentiment.

There was one more meeting held that spring, and many the following year. At no time was there any question as to the sincerity of the men but the opinions and ideas advanced as to what was needed and ways of proceeding were exceedingly vague.

These meetings finally resulted in the drawing up of a constitution and its ratification by sixteen of the seventeen fraternities. Finally, at the meeting of March the sixteenth, the organization of the council was perfected and officers elected. They at once proceeded to the consideration of some of the questions which seemed most pressing to them, with the following results.

No student shall be initiated who has not completed six weeks of work and then only provided, that seventy-five per cent of his work is worth passing. Drill and gymnasium excepted. The president of the council to certify to this effect.

A man who has passed in seventy-five per cent of his work the first semester may be initiated at any time during the second semester if up in seventy-five per cent of his work at the time.

No prospective student of the university shall be pledged by any fraternity until such student shall have completed all except his senior year in high school or preparatory school, to be determined by some formal statement made by the principal of such school, and such statement to be delivered to the president or the council on demand.

At the last meeting of the year the question of meeting financial obligation was brought up. Resolutions were introduced and it was voted that these be taken up the coming fall after they had been presented to each fraternity for consideration.

I feel that in this inter fraternity council there is great promise of future good, both to the fraternities and the university.

There are many conflicting views and interests and the life of the council depends entirely on the success or failure in harmonizing these conflicting elements.

REPORT OF THE DEAN OF WOMEN.

Miss Ada Comstock, dean of women, reports that Sanford Hall, the residence for women students, provided for in an appropriation of one hundred thousand dollars by the legislature of 1909, is completed and is now occupied by ninety students. As was expected, it has proved to be a comfortable and delightful dwelling place.

Miss Leonard, the house director elected by the Board of Regents in May, 1910, has shown great efficiency in choosing equipment and in superintending the details of finishing the building. We are most fortunate in having her services at the outset of our experience with college residence halls.

Next to Sanford Hall, the greatest addition to the comfort of the women students in these two years has been afforded by Mr. Thomas H. Shevlin's gift of \$20,000, for the enlargement of Shevlin Hall. The new lunch room and kitchen are spacious, hygienic and attractive. The problem of serving promptly the hordes of students who throng to Shevlin Hall at the close of the fourth hour will, we think, be solved by this new room, the seating capacity of which is more than twice that of the old lunch room. In light, ventilation, and convenience the improvement is marked.

Other gifts have been made to Shevlin Hall. When the building was first erected, Mr. Earl Brown gave \$500 for the furnishing of a room in honor of his mother, Mrs. Jean Martin Brown. Two years ago Mr. Brown completed the furnishing of this room at an additional expense of \$405.

In honor of Ursula M. James, a member of the class of 1903, her father and mother have presented Shevlin Hall with a handsome set of books.

The Delta Gamma sorority has given a brass jardiniere and two candlesticks for the mantel piece in the living room of Shevlin Hall.

SCHOLARSHIPS.

A scholarship and several scholarship loans have been given exclusively for the use of women students. The College Women's Club of this city has for three years given a scholarship of \$150 to a member of the senior class.

The Puritan Colony of the Society of New England Women has established a scholarship loan of \$100, which it offers to seniors, giving the preference to those of New England birth or descent.

A fund accumulated by the State Federation of Women's Clubs in honor of Professor Emeritus, Maria L. Sanford, has been placed this year at the disposal of the women students. Two scholarship loans have been granted from it for the ensuing year.

It is the intention of those responsible for all these scholarships to establish them, as soon as possible, upon a permanent basis.

CONDITIONS OF STUDENT LIFE.

The last two years have seen a great increase of interest among the students in regard to their own problems. The prevalence of petty thieving and of cheating in class-room exercises became, last year, a matter of deep concern to the Student Government Association—an organization composed

of all the women students; and an effort was made by means of pledge cards to test student sentiment in these matters. The discussion and revelations thus provoked aroused both faculty and students. A faculty committee was selected to propose means of checking the evil; and a student council was organized in the College of Science, Literature and the Arts to co-operate with the faculty in creating a better spirit and in handling cases of dishonesty. Undoubtedly these measures were of some benefit. To accomplish great and permanent results they must be followed up year after year with courage and perseverance.

LODGING HOUSES.

The publication, during the past three years, of lists of houses recommended for women students has been productive of good results. Three years ago there was practically no segregation of men and women students in lodging houses; and in the great majority of the lodging houses it was customary for the young women to receive all their callers in their bed rooms. Segregation is now nearly complete, and most of the houses provide suitable reception rooms for their women students.

WORK FOR SELF-SUPPORTING STUDENTS.

Every woman student who has asked for work to aid her in meeting her expenses has had some opportunity offered her. It has not always been possible to find tutoring or clerical work for those who wished it; but there are always places where a student who is willing to do housework may earn her room or her board or both.

PROSPECTS FOR THE FUTURE.

I. It is highly desirable to carry farther the listing and inspection of lodging houses. In the near future we should have a competent person detailed to give sanitary inspection to these houses. A rule should also be made very shortly insisting absolutely upon the segregation of men and women students in boarding houses.

II. Other halls of residence should be added to Sanford Hall, so that, eventually, we may house the great majority of our women students from out of town. Experience with Sanford Hall has made it evident that in the future an appropriation of not less than \$150,000 should be obtained for each similar dwelling.

III. The greatest present need of the women students is, a proper and well-equipped gymnasium. The gymnastic work now offered the women keeps alive in them the ideal of physical perfection, and enables us to discover cases of students who need corrective exercises; but it can not accomplish a fraction of what it might do under proper conditions. The value of physical care and training to women is hard to over-estimate; and suitable care and training can not be given without a good gymnasium.

CONCLUSION.

In closing this, my last biennial report to the Board of Regents, I beg leave to express my deep sense of obligation for the great kindness shown

me by the board during the twenty-six years of my administration as president of the university and to offer to every member of the board my most hearty wishes for his happiness and welfare.

CYRUS NORTHROP.

UNIVERSITY OF MINNESOTA.
Financial Statement.

Minneapolis, Dec. 13, 1910.

Hon. John Lind, President of the Board of Regents.

Sir: I herewith submit the financial report of the University of Minnesota for the fiscal years commencing August 1, 1908, and ending July 31, 1910.

JOSEPH D. BREN,
Treasurer University of Minnesota.

CURRENT EXPENSE.

Year 1908-1909.

**STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR YEAR ENDING
JULY 31, 1909.**

RECEIPTS.

Balance August 1, 1908:

Revolving fund	\$2,800.00	
Swamp land interest.....	16,542.92	
23-100 mill revenue tax.....	4,188.96	
Morris bill, year 1908-09.....	25,000.00	
Nelson bill, year 1908-09.....	10,000.00	
		\$58,531.88

Transferred from cataloging library fund....	\$2,406.62	
Transferred from cataloging library fund....	1,191.65	
		\$3,598.27

From the United States Government:

Grants made by the government approved March 2, 1861, and July 2, 1862, being in- terest on the bonds of various states in which the resulting funds are invested..	\$56,614.25	
Interest on bank deposits.....	393.07	
United States treasurer, Morrill bill, 1909-10	25,000.00	
United States treasurer, Nelson bill, 1909-10	15,000.00	
Total from United States government		97,007.32

From State Appropriations:

23-100 of one mill revenue tax.....	\$244,768.90	
Additional appropriation	165,000.00	
Total from the state.....		409,768.90

Swamp land fund interest..... 12,739.40

From State University:

Students' fees	\$158,391.04	
Dental Infirmary	14,517.59	
Miscellaneous receipts, University.....	1,230.40	
School of Agriculture, sales and fees.....	18,980.01	
Experiment Station sales.....	5,449.36	
Miscellaneous receipts, Farm.....	18.00	
Total from the University.....		198,586.40

Transferred from Hatch fund to fuel.....	2,308.67	
--	----------	--

Total receipts, year 1908-1909..... 724,008.96

Total receipts, including balance August 1, 1908..... \$782,540.84

DUSBURSEMENTS.

	Pay Roll.	Bills.	Fuel.	
August	\$14,379.76	\$15,014.05	\$528.62	
September	49,747.78	18,453.72	3,296.68	
October	52,949.21	8,797.97	1,217.96	
November	53,300.04	13,806.83	2,142.26	
December	51,992.25	13,580.64	3,982.96	
January	53,027.11	10,453.56	5,240.11	
February	54,539.87	13,231.26	9,801.61	
March	55,933.63	10,028.13	1,654.13	
April	53,457.42	8,616.01	3,442.22	
May	53,847.51	9,494.15	1,269.94	
June	52,477.12	7,181.85	3,748.87	
July	16,442.23	8,451.53	1,044.16	
Totals	\$562,093.93	\$137,109.70	\$37,369.52	
Bills			137,109.70	
Fees, county treasurers, by state auditor.....			100.34	
Totals bills, including fuel.....			\$174,579.56	
Salaries			562,093.93	
Total disbursements				736,673.49
Balance, August 1, 1909, support fund.....				\$45,867.35

CURRENT EXPENSE.

Year 1909-1910.

STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR YEAR ENDING
JULY 30, 1910.

RECEIPTS.

Auditor's balance, August 1, 1909.....		\$7,459.01
Auditor's balance in fuel fund August 1, 1909.....		388.61
Receipts belonging to year 1908-09 turned into treasury after August 1, 1909.....		44,715.42
Total		\$52,563.04
Less July bills year 1908-09 paid after August 1, 1909.....	\$8,451.53	
Less fuel bills year 1908-09 paid after August 1, 1909.....	1,044.16	
		9,495.69
Revolving fund		\$43,067.35
		2,800.00
True balance August 1, 1909.....		\$45,867.35
From the United States Government:		
Grants made by the government approved March 2, 1861, and July 2, 1862, being in- terest on the bonds of various states in which the resulting funds are invested...	\$61,664.30	
Interest on bank deposits.....	295.06	
United States treasurer, Morrill bill, 1910-11	25,000.00	
United States treasurer, Nelson bill, 1910-11	20,000.00	
United States treasurer, Hatch bill, first quarter, year 1910-11.....	3,750.00	
United States treasurer, Adams bill, first quarter, year 1910-11.....	3,750.00	
Total from the United States govern- ment		\$114,459.36
From State Appropriations:		
23-100 of one mill revenue tax.....	\$256,175.55	
Additional appropriation	190,000.00	
Total from the state.....		446,175.55
State institutions fund interest.....		8,047.55
From the University:		
Students' fees	\$148,239.04	
Dental Infirmary	11,322.17	
University, miscellaneous receipts.....	1,932.99	

SIXTEENTH BIENNIAL REPORT

School of Agriculture, sales and fees.....	23,437.24	
Experiment Station, sales.....	6,803.03	
Total from the University.....		191,734.47
Total receipts, year 1909-1910.....		760,416.93
Total receipts, including balance, August 1, 1909...		\$806,284.28

DUSBURSEMENTS.

	Pay Rolls.	Bills.	
August	\$16,277.43	\$2,688.93	
September	55,877.52	9,600.25	
October	59,176.82	19,192.06	
November	58,917.53	16,075.35	
December	58,126.14	22,395.62	
January	61,198.68	16,429.53	
February	61,176.15	12,936.00	
March	62,719.21	11,676.36	
April	60,503.90	10,157.33	
May	61,339.08	9,611.24	
June	59,994.97	5,803.38	
July	16,529.18	9,906.77	
Totals	\$631,836.61	\$146,472.82	
Pay rolls		631,836.61	
Fees paid county treasurers by auditor.....		160.92	
Students' fees transferred to economics extension fund		1,825.00	
Fuel		34,648.11	
Elliott Hospital support, pay roll... \$1,409.82			
Elliott Hospital support, bills..... 1,639.24			
		3,049.06	
Total disbursements			817,992.52
Deficit			\$11,708.24
Deduct Morrill bill received from United States government in July for year 1910-1911.....		\$25,000.00	
Deduct Nelson bill received from United States government in July for year 1910-1911.....		20,000.00	
Deduct Hatch bill received from United States government in July for year 1910-1911, first quarter.....		3,750.00	
Deduct Adams bill received from United States government in July for year 1910-1911, first quarter.....		3,750.00	
Total			52,500.00
Excess of disbursements over receipts, August 1, 1910			\$64,208.24

CURRENT EXPENSE.

SUMMARY OF DISBUREMENTS BY DEPARTMENTS, YEAR 1908-1909.

	Salaries.	Bills.	Totals.
General University	\$54,444.01	\$28,037.73	\$82,481.74
Department of Botany.....	7,179.19	3,530.19	10,709.38
Department of Biology.....	10,300.00	2,163.55	12,463.55
School of Chemistry.....	23,990.29	9,726.24	33,716.53
Department of Physics	13,285.00	2,745.50	16,030.50
Department of English	11,750.00	60.35	11,810.35
Department of Greek	6,300.00	8.60	6,308.60
Department of Latin	6,700.00	26.05	6,726.05
Department of German	12,275.00	7.35	12,282.35
Department of French	9,025.00	.90	9,025.90
Department of Scandinavian	4,200.00	204.11	4,404.11
Department of Mathematics	10,825.00	3.50	10,828.50
Department of Astronomy	3,225.00	25.62	3,250.62
Department of Political Science	15,575.00	1,167.02	16,742.02
Department of Geology	7,200.00	1,024.71	8,224.71
Department of Philosophy	8,450.00	184.09	8,634.09
Department of Rhetoric	13,105.00	308.17	13,413.17
Department of History	11,012.50	3.50	11,016.00
Department of Sociology	5,612.50	1,215.97	6,828.47
Department of Physical Culture, Men.....	4,370.00	233.87	4,603.87
Department of Physical Culture, Women.....	2,270.48	126.09	2,396.57
Department of Military Science	1,490.00	482.27	1,972.27
General Academic	10,091.40	563.63	10,655.03
College of Education.....	10,220.19	1,148.05	11,368.24
Total Science, Literature and Art.....	\$262,895.56	\$52,997.06	\$315,892.62

General Engineering	\$19,715.00	\$955.85	\$20,670.85
Department of Electrical Engineering.....	8,057.13	3,842.32	11,899.45
Department of Mechanical Engineering.....	11,810.00	2,960.48	14,770.48
Department of Civil and Structural Engineer- ing	8,720.00	859.05	9,579.05
Department of Drawing Engineering.....	4,980.00	48.21	5,028.21
Total Engineering Departments.....	\$53,282.13	\$8,665.91	\$61,948.04
School of Mines.....	\$10,500.00	\$6,648.92	\$17,148.92
Special Appropriation, School of Mines Sup- port	5,000.00	.....	.....
Special Appropriation, School of Mines In- structors	4,500.00	.....	(9,500.00)
Total School of Mines, including Special Appropriations	\$20,000.00	\$6,648.92	\$17,148.92 (9,500.00)
College of Law.....	\$25,426.00	\$1,091.07	\$26,517.07
General Medicine and Surgery.....	\$23,406.01	\$6,311.13	\$29,717.14
Department of Anatomy	5,780.00	2,528.55	8,308.55
Department of Bacteriology	11,354.92	5,026.09	16,381.01
Department of Physiology	8,380.00	2,631.86	11,011.86
Department of Histology	10,784.96	3,074.96	13,859.92
Department of Homeopathy	2,460.00	276.32	2,736.32
College of Dentistry	28,095.00	11,632.13	39,727.13
College of Pharmacy	6,440.00	1,932.07	8,372.07
Total Medical Departments.....	\$96,700.89	\$33,413.11	\$130,114.00
Total University	\$448,804.58	\$102,816.07	\$551,620.65
School and Station.....	\$49,422.88	\$12,634.71	\$62,057.59
Division of Agriculture	21,764.15	3,399.73	25,163.88
Division of Animal Husbandry.....	7,442.49	5,969.59	13,412.08
Division of Farm Chemistry.....	6,492.65	1,862.50	8,355.15
Division of Dairy Husbandry.....	11,138.88	7,577.74	18,716.62
Division of Entomology	1,800.00	507.40	2,307.40
Division of Horticulture	10,838.30	1,085.20	11,923.50
Division of Veterinary	4,390.00	1,256.76	5,646.76
Total Farm	\$113,289.35	\$34,293.63	\$147,582.98
Total University and Farm.....	\$562,093.93	\$137,109.70	\$699,203.63
University Current Expense, Salaries.....			\$448,804.58
University Current Expense, Bills.....			102,816.07
Farm Current Expense, Salaries.....			113,289.35
Farm Current Expense, Bills.....			34,293.63
Grand total			\$699,203.63

CURRENT EXPENSE.

SUMMARY OF DISBURSEMENTS BY DEPARTMENTS, YEAR 1909-1910.

	Salaries.	Bills.	Totals.
General University	\$61,746.12	\$30,852.70	\$92,598.82
Department of Botany	7,499.14	2,170.04	9,669.18
Department of Animal Biology.....	11,520.00	2,156.53	13,676.53
School of Chemistry.....	29,234.84	11,457.19	40,692.03
Department of Physics	12,610.00	2,336.64	14,946.64
Department of English	9,750.00	112.80	9,862.80
Department of Greek	5,200.00	31.55	5,231.55
Department of Latin	7,200.00	29.57	7,229.57
Department of German	14,600.00	5.65	14,605.65
Department of French	10,350.00	.....	10,350.00
Department of Scandinavian	4,200.00	99.78	4,299.78
Department of Mathematics	12,975.00	25.53	13,000.53
Department of Astronomy	3,200.00	19.39	3,219.39
Department of Political Science.....	16,765.26	851.47	17,616.73
Department of Geology	9,335.00	2,099.80	11,434.80
Department of Philosophy	10,550.00	215.95	10,765.95
Department of Rhetoric	17,437.54	440.85	17,878.39
Department of History	12,825.00	2.02	12,827.02
Department of Sociology	6,662.50	896.72	7,559.22
Department of Physical Culture, Men.....	4,965.76	318.30	6,284.06
Department of Physical Culture, Women....	2,900.00	22.65	2,922.65
Department of Military Science.....	2,395.00	977.98	3,372.98
General Academic	11,377.26	1,082.37	12,459.63
College of Education.....	11,474.10	863.78	12,337.88
Total Science, Literature and the Arts..	\$296,772.52	\$57,069.26	\$353,841.78

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General Engineering	\$27,100.00	\$1,869.37	\$28,969.37
Department of Electrical Engineering.....	8,527.60	3,075.91	11,603.51
Department of Mechanical Engineering.....	12,515.00	3,862.66	16,377.66
Department of Civil and Structural Engineer- ing	9,400.00	147.63	9,547.63
Department of Drawing Engineering.....	5,400.00	135.47	5,535.47
Total Engineering Departments.....	\$62,942.60	\$9,091.04	\$72,033.64
School of Mines.....	\$12,100.00	\$7,117.56	\$19,217.56
Special Appropriation, School of Mines Sup- port	(5,000.00)	.....	.....
Special Appropriation, School of Mines In- structors	(4,500.00)	.....	(9,500.00)
Total School of Mines, including Special Appropriations	\$21,600.00	\$7,117.56	\$19,217.56 (9,500.00)
College of Law.....	\$27,210.00	\$983.47	\$28,193.47
General Medicine and Surgery.....	\$23,952.66	\$6,181.76	\$30,134.42
Department of Histology and Anatomy.....	18,739.85	5,359.02	24,098.87
Department of Pathology and Bacteriology..	13,558.71	5,410.01	18,968.72
Department of Physiology	17,440.00	2,473.85	19,913.85
College of Dentistry.....	31,450.00	14,804.91	46,254.91
College of Pharmacy.....	6,870.00	2,338.17	9,208.17
Total Medical Departments.....	\$112,011.22	\$36,567.72	\$148,578.94
Total University	\$511,036.34	\$110,829.05	\$621,865.39
School and Station	\$56,860.06	\$15,546.65	\$72,406.71
Division of Agriculture	18,843.15	3,077.67	21,920.82
Division of Animal Husbandry.....	7,744.69	7,054.84	14,799.53
Division of Farm Chemistry	7,321.67	1,251.08	8,572.75
Division of Dairy Husbandry	11,592.34	6,400.42	17,992.76
Division of Entomology	1,915.19	359.14	2,274.33
Division of Horticulture	11,663.21	709.51	12,372.72
Division of Veterinary	4,859.96	1,244.46	6,104.42
Total Farm	\$120,800.27	\$35,643.77	\$156,444.04
Total University and Farm.....	\$631,836.61	\$146,472.82	\$778,309.43
University Current Expense, Salaries.....			\$511,036.34
University Current Expense, Bills.....			110,829.05
Farm Current Expense, Salaries.....			120,800.27
Farm Current Expense, Bills.....			35,643.77
Grand total			\$778,309.43

CURRENT EXPENSE.
DISTRIBUTION OF ACCOUNTS,

	Year 1908-1909	Year 1909-1910
Labor	\$1,313.34	\$1,901.68
Fuel, power and light.....	7,440.86	6,397.39
Water	1,478.06	2,736.82
Freight and express.....	3,468.52	3,889.09
Postage	3,919.26	4,084.16
Library	5,716.30	5,415.84
Stationery and printing.....	10,951.18	11,601.85
Furniture and fixtures.....	3,988.95	9,414.56
Scientific apparatus and instruments.....	11,442.58	7,400.60
Building equipment	465.30	2,560.32
Live stock	642.20	225.00
Tools, implements and machinery.....	5,633.14	7,928.91
Feed	10,415.58	10,192.71
Seeds and plants.....	215.19	311.94
Supplies for instruction and illustration.....	41,467.82	47,256.90
Repairs	1,730.01	2,347.14
Traveling expenses	4,413.69	4,899.08
Petty bills	6,272.01	4,708.22
Taxes, rents and ads.....	4,462.64	6,256.69
Publications	7,546.10	3,034.00
Contingent expenses	4,047.97	3,638.52
Museum	79.00	271.40
	\$137,109.70	\$146,472.82
Fuel for heating	37,369.52	34,648.11
Total bills	\$174,479.22	\$181,120.93
University salaries	\$448,804.58	\$511,036.34
Farm salaries	113,289.35	120,800.27
Total salaries	\$562,093.93	\$631,836.61
Grand total salaries and bills, including fuel.....	\$736,573.15	\$812,957.54

REPAIRS, UNIVERSITY.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws 1909, Chapter 375.

Balance July 31, 1908.....		\$346.05
Appropriation for year 1908-09.....		10,000.00
Rents from new campus extension buildings, year 1908-09.....		5,417.42
Appropriation for year 1909-10.....		20,000.00
Total receipts		<u>\$35,763.47</u>
Expended during year 1908-09.....	\$15,777.37	
Expended during year 1909-10.....	18,041.54	
Total expenditures		<u>33,818.91</u>
Balance July 31, 1910.....		<u>\$1,944.56</u>

LIBRARY, UNIVERSITY.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws 1909, Chapter 375.

Balance July 31, 1908.....		\$3,638.20
Appropriation for year 1908-09.....		10,000.00
Appropriation for year 1909-10.....		10,000.00
Receipts during year 1909-10.....		36.41
Total receipts		<u>\$23,674.61</u>
Expended during year 1908-09.....	\$13,246.42	
Expended during year 1909-10.....	9,576.96	
Total expenditures		<u>22,823.38</u>
Balance July 31, 1910.....		<u>\$851.23</u>

UNIVERSITY, PERIODICALS.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws 1909, Chapter 375.

Balance July 31, 1908.....		\$324.97
Appropriation for year 1908-09.....		2,000.00
Appropriation for year 1909-10.....		2,500.00
Total receipts		<u>\$4,824.97</u>
Expended during year 1908-09.....	\$1,711.95	
Expended during year 1909-10.....	2,983.44	
Total expenditures		<u>4,695.39</u>
Balance July 31, 1910.....		<u>\$129.58</u>

CATALOGING LIBRARY.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws 1909, Chapter 375.

Balance July 31, 1908.....		\$2,500.00
Appropriation for year 1908-09.....	\$2,500.00	
Appropriation for year 1909-10.....	2,500.00	
Total receipts		<u>5,000.00</u>
Grand total		<u>\$7,500.00</u>
Expended during year 1908-09.....	\$4,984.95	
Expended during year 1909-10.....	2,249.81	
Total expenditures		<u>7,234.76</u>
Balance July 31, 1910.....		<u>\$265.24</u>

LAW LIBRARY.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws 1909, Chapter 375.

Balance July 31, 1908.....		\$2,502.52
Appropriation for year 1908-09.....	\$5,000.00	
Appropriation for year 1909-10.....	5,000.00	
Total receipts		<u>10,000.00</u>
Grand total		<u>\$12,502.52</u>
Expended during year 1908-09.....	\$6,062.86	
Expended during year 1909-10.....	3,763.58	
Total expenditures		<u>9,826.44</u>
Balance July 30, 1910.....		<u>\$2,676.08</u>

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UNIVERSITY CAMPUS REPAIRS.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws 1909, Chapter 375.

Balance July 31, 1908.....		\$193.42
Appropriation, year 1908-09.....		3,000.00
Appropriation, year 1909-10.....		3,000.00
Total receipts		<u>\$6,193.42</u>
Expended during year 1908-09.....	\$1,962.90	
Expended during year 1909-10.....	1,512.03	
Total expenditures		<u>3,474.93</u>
Balance July 30, 1910.....		<u>\$2,718.49</u>

SCHOOL OF MINES, INSTRUCTORS.

Appropriation for year 1908-09.....		\$4,500.00
Appropriation for year 1909-10.....		4,500.00
Total receipts		<u>\$9,000.00</u>
Expended during year 1908-09.....	\$4,500.00	
Expended during year 1909-10.....	4,500.00	
Total expenditures		<u>\$9,000.00</u>

SCHOOL OF MINES, SUPPORT.

Appropriation for year 1908-09.....		\$5,000.00
Appropriation for year 1909-10.....		5,000.00
Total receipts		<u>\$10,000.00</u>
Expended during year 1908-09.....	\$5,000.00	
Expended during year 1909-10.....	5,000.00	
Total expenditures		<u>\$10,000.00</u>

MACHINERY, SCHOOL OF MINES.

Balance July 31, 1908.....		\$262.36
Expended during year 1908-09.....		262.36

COLLEGE OF EDUCATION EXTENSION WORK.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$5,000.00
Expended during year 1909-10.....		4,001.35
Balance July 30, 1910.....		<u>\$998.65</u>

..DEPARTMENT OF ECONOMICS, EXTENSION WORK.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$5,000.00
Fees from students during year 1909-10.....		1,825.00
Lectures delivered		274.00
Total receipts		<u>\$7,099.00</u>
Expended during year 1909-10.....		5,547.09
Balance July 30, 1910.....		<u>\$1,551.91</u>

WATER MAINS, UNIVERSITY.

Balance July 31, 1908		\$1,169.05
Expended during year 1908-09.....	\$53.28	
Expended during year 1909-10.....	66.22	
Total expenditures		<u>119.50</u>
Balance July 30, 1910.....		<u>\$1,049.55</u>

ENGINEERING DEPARTMENT.

Balance July 31, 1908.....		\$65.02
Expended during year 1908-09.....		65.02

MEDICAL BUILDING, INSURANCE.

Balance July 31, 1908.....		\$403.92
Receipts, insurance, year 1908-09.....		3,991.96
Total receipts		<u>\$4,395.88</u>
Expended during year 1908-09.....	\$4,080.08	
Expended during year 1909-10.....	44.07	
Total expenditures		<u>4,124.15</u>
Balance July 30, 1910.....		\$271.73

FIRE LOSS, MECHANIC ARTS BUILDING, CONTENTS.

Balance July 31, 1908.....	\$72.09
Expended during year 1908-09.....	72.09

FIRE LOSS, ANATOMICAL BUILDING, CONTENTS.

Insurance collected on contents		\$3,500.00
Expended during year 1908-09.....	\$2,120.23	
Expended during year 1909-10.....	670.96	
Total expenditures		<u>2,791.19</u>
Balance July 30, 1910.....		\$708.81

FIRE LOSS, MILLARD HALL, BUILDING.

Insurance collections, year 1909-10.....	\$21,030.00
Expended during year 1909-10.....	2,135.47
Balance July 30, 1910.....	<u>\$18,894.53</u>

FIRE LOSS, MILLARD HALL, CONTENTS.

Insurance collections, year 1909-10.....	\$9,755.27
Expended during year 1909-10.....	3,053.13
Balance July 30, 1910.....	<u>\$6,702.14</u>

TAXES, UNIVERSITY CAMPUS EXTENSION.

(See Special Report on "U" Campus Extension Fund, Dated December 6, 1910.)

Balance July 31, 1908.....		\$89,520.48
Taxes received during year 1908-09.....	\$180,330.55	
Taxes received during year 1909-10.....	169,393.62	
Total receipts		<u>349,724.17</u>
Grand total		<u>\$439,244.65</u>
Expended during year 1908-09.....	\$125,000.00	
Expended during year 1909-10.....	75,000.00	
Total expenditures		<u>200,000.00</u>
Balance July 30, 1910.....		<u>\$239,244.65</u>

UNIVERSITY CAMPUS EXTENSION.

Balance July 31, 1908.....	\$203,525.95
Received during year 1908-09 from sale of Board of Regents Certificates of Indebtedness	200,666.66
From sale of houses.....	7,166.32
Refunds to state treasurer.....	41,131.41
Total receipts and balance.....	<u>\$452,490.34</u>
Expended during year 1908-09.....	\$318,117.80
Expended during year 1909-10.....	289,225.30
Total expenditures	<u>607,343.10</u>
Debit balance drawn from taxes, "U" Campus Extension Fund	<u>154,852.96</u>
Balance July 30, 1910.....	<u>\$84,391.89</u>

RENTS, UNIVERSITY CAMPUS BUILDINGS.

Balance July 31, 1908.....		\$1,058.18
Rents collected during year 1908-09.....	\$1,761.62	
Rents collected during year 1909-10.....	9,042.07	
Total receipts		10,803.69
Grand total		\$11,861.87
Expended during year 1908-09.....	\$1,902.37	
Expended during year 1909-10.....	5,915.02	
Total expenditures		7,817.39
Balance July 30, 1910.....		\$4,044.48

ELLIOTT HOSPITAL, SUPPORT.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws 1909, Chapter 375.

Appropriation for year 1908-09.....		\$25,000.00
Appropriation for year 1909-10.....		5,000.00
Total receipts		\$30,000.00
Expended during year 1908-09.....	\$11,857.70	
Expended during year 1909-10.....	18,084.49	
Total expenditures		29,942.19
Balance July 30, 1910.....		\$57.81

ELLIOTT HOSPITAL, BUILDING.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$40,000.00
Expended during year 1909-10.....		19,897.16
Balance July 30, 1910.....		\$20,102.84

FIRE LOSS, ANATOMICAL BUILDING.

Insurance collected on building.....		\$8,274.50
Expended during year 1908-09.....		107.50
Balance July 30, 1910.....		\$8,167.00

(Balance to be used in the erection of Institute of Anatomy.)

INSTITUTE OF ANATOMY.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$191,833.00
Expended during year 1909-10.....		305.29
Balance July 30, 1910.....		\$191,527.71

Note: Balance of \$8,167.00, July 30, 1910, in fire loss Anatomical Building Fund is to be added to the above fund to be used in erection of the Institute of Anatomy.

UNIVERSITY MAIN BUILDING, EQUIPMENT.

Balance July 31, 1908.....		\$2,151.74
Expended during year 1908-09.....	\$929.84	
Expended during year 1909-10.....	896.43	
Total expenditures		1,826.27
Balance July 30, 1910.....		\$325.47

NEW HEATING PLANT, UNIVERSITY.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$100,000.00
Revolving fund	\$2,000.00	
Expended during year 1909-10.....	1,821.12	
Total expenditures and revolving fund.....		3,821.12
Balance July 30, 1910.....		\$96,178.88

LADIES' DORMITORY, UNIVERSITY.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$100,000.00
Expended during year 1909-10.....	36,498.00
Balance July 30, 1910.....	<u>\$63,502.00</u>

BACTERIOLOGICAL LABORATORY, EQUIPMENT.

Balance July 31, 1908.....	\$324.70
Expended during year 1908-09.....	24.75
Balance July 30, 1910.....	<u>\$299.95</u>

ANIMAL HOUSE, PHYSIOLOGY.

Balance July 31, 1908.....	\$2,500.00
Expended during years 1908-09 and 1909-10.....	None
Balance July 30, 1910.....	<u>\$2,500.00</u>

HOMEOPATHIC BUILDING.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$50,000.00
Expended during year 1909-10.....	None
Balance July 30, 1910.....	<u>\$50,000.00</u>

REPAIRS, FARM.

Balance July 31, 1908.....	\$1,654.06
Appropriation for year 1908-09.....	5,000.00
Appropriation for year 1909-10.....	5,000.00
Total receipts	<u>\$11,654.06</u>
Expended during year 1908-09.....	\$5,210.91
Expended during year 1909-10.....;.....	4,298.03
Total expenditures	<u>9,508.94</u>
Balance July 30, 1910.....	<u>\$2,145.12</u>

CAMPUS REPAIRS, SCHOOL OF AGRICULTURE.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws 1909, Chapter 375.

Balance July 31, 1908.....	\$4.35
Appropriation for year 1908-09.....	500.00
Appropriation for year 1909-10.....	1,000.00
Total receipts	<u>\$1,504.35</u>
Expended during year 1908-09.....	\$504.35
Expended during year 1909-10.....	587.00
Total expenditures	<u>1,091.35</u>
Balance July 30, 1910.....	<u>\$413.00</u>

LIBRARY, SCHOOL OF AGRICULTURE.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1910.....	\$2,500.00
Expended during year 1909-10.....	2,427.06
Balance July 30, 1910.....	<u>\$72.94</u>

MACHINERY BUILDING.

Balance July 31, 1908.....	\$284.66
Expended during year 1908-09.....	280.50
Balance July 31, 1909.....	<u>\$4.16</u>
Cancelled by state auditor July 31, 1909.....	\$4.16

MAIN BUILDING EQUIPMENT, SCHOOL OF AGRICULTURE.

Balance July 31, 1908.....		\$1,856.93
Expended during year 1908-09.....	\$1,702.10	
Expended during year 1909-10.....	58.52	
Total expenditures		1,760.62
Balance July 30, 1910.....		\$96.31

WATER TOWER AND TANK, SCHOOL OF AGRICULTURE.

Balance July 31, 1908.....		\$940.04
Expended during years 1908-09 and 1909-10.....		None
Balance July 30, 1910.....		\$940.04

DAIRY BARN, SCHOOL OF AGRICULTURE.

Balance July 31, 1908.....		\$2,392.56
Expended during year 1908-09.....	\$75.15	
Expended during year 1909-10.....	2,156.08	
Total expenditures		2,231.23
Balance July 30, 1910.....		\$161.33

HEATING PLANT AND HALL, SCHOOL OF AGRICULTURE.

Balance July 31, 1908.....		\$1,196.89
Expended during year 1908-09.....		12.95
Balance July 30, 1910.....		\$1,183.94

LADIES' DORMITORY, SCHOOL OF AGRICULTURE.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$50,000.00
Expended during year 1909-10.....		704.00
Balance July 30, 1910.....		\$49,296.00

ALCOHOL PLANT, SCHOOL OF AGRICULTURE.

New appropriation available August 1, 1909.....		\$6,000.00
Receipts during year 1909-10.....		2.50
Total receipts		\$6,002.50
Expended during year 1909-10.....		None
Balance July 30, 1910.....		\$6,002.50

GRAIN LABORATORY, SCHOOL OF AGRICULTURE.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$1,000.00
Expended during year 1909-10.....		248.93
Balance July 30, 1910.....		\$751.07

GRADING LARPENTEUR AVENUE.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$1,500.00
Expended during year 1909-10.....		1,047.55
Balance July 30, 1910.....		\$452.45

BOARD OF REGENTS, TIMBER.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$1,500.00
Expended during year 1909-10.....		124.78
Balance July 30, 1910.....		\$1,375.22

BOARD OF REGENTS, SCHOOL OF AGRICULTURE LANDS.

Balance July 31, 1908, receipts from sale of lots in Regents' Addition..	\$2,717.97
Expenditures during years 1908-09 and 1909-10.....	None
Balance July 30, 1910.....	\$2,917.97

LANDS, SCHOOL OF AGRICULTURE.

Balance July 31, 1908.....	\$3,238.67
Expenditures during years 1908-09 and 1909-10.....	None
Balance July 30, 1910.....	\$3,238.67

LIVE STOCK, SCHOOL OF AGRICULTURE.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws, 1909, Chapter 375.

Balance July 31, 1908.....	\$2,478.82
Appropriation for year 1908-09.....	4,500.00
Appropriation for year 1909-10.....	4,000.00
Total receipts	\$10,978.82
Expended during year 1908-09.....	\$3,133.13
Expended during year 1909-10.....	4,673.83
Total expenditures	7,806.96
Balance July 30, 1910.....	\$3,171.86

FIELD CROPS, SCHOOL OF AGRICULTURE.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws, 1909, Chapter 375.

Balance July 31, 1908.....	\$1,256.43
Appropriation for year 1908-09.....	3,500.00
Appropriation for year 1909-10.....	3,500.00
Total receipts	\$8,256.43
Expended during year 1908-09.....	\$4,093.43
Expended during year 1909-10.....	3,493.85
Total expenditures	7,587.28
Balance July 30, 1910.....	\$669.15

SOIL INSPECTION, SCHOOL OF AGRICULTURE.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws, 1909, Chapter 375.

Balance July 31, 1908.....	\$616.12
Appropriation for year 1908-09.....	\$1,000.00
Receipts during year	20.77
Appropriation for year 1909-10.....	1,000.00
Receipts during year	4.83
Total receipts	2,025.60
Expended during year 1908-09.....	\$747.50
Expended during year 1909-10.....	806.48
Total expenditures	1,553.98
Balance July 30, 1910.....	\$1,087.74

HOG CHOLERA, SCHOOL OF AGRICULTURE.

Minnesota Laws, 1909, Chapter 375.

Appropriation for year 1908-09.....	\$2,000.00
Appropriation for year 1909-10.....	4,000.00
Total receipts	\$6,000.00
Expended during year 1909-10.....	5,944.14
Balance July 30, 1910.....	\$55.86

SEWERS, SCHOOL OF AGRICULTURE.

Minnesota Laws, 1909, Chapter 375.

Balance July 31, 1908.....	\$420.04
Appropriation for year 1909-10.....	2,000.00
Total receipts	<u>\$2,420.04</u>
Expended during year 1908-09.....	\$420.04
Expended during year 1909-10.....	1,250.09
Total expenditures	<u>1,670.13</u>
Balance July 30, 1910.....	\$749.91

HORTICULTURE CROPS, SCHOOL OF AGRICULTURE.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws, 1909, Chapter 375.

Balance July 31, 1908.....	\$538.77
Appropriation for year 1908-09.....	\$1,000.00
Appropriation for year 1909-10.....	1,000.00
Total receipts	<u>2,000.00</u>
Grand total	<u>\$2,538.77</u>
Expended during year 1908-09.....	\$524.27
Expended during year 1909-10.....	1,038.97
Total expenditures	<u>1,563.24</u>
Balance July 30, 1910.....	\$975.53

WATER MAINS, SCHOOL OF AGRICULTURE.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$700.00
Expenditures during year 1909-10.....	None
Balance July 30, 1910.....	<u>\$700.00</u>

GAS MAINS, SCHOOL OF AGRICULTURE.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$1,000.00
Expended during year 1909-10.....	1,000.00

WELL AND PUMP, SCHOOL OF AGRICULTURE.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$2,000.00
Expended during year 1909-10.....	1,973.64
Balance July 30, 1910.....	<u>\$26.36</u>

DRAINAGE, SCHOOL OF AGRICULTURE.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$2,000.00
Expended during year 1909-10.....	1,239.90
Balance July 30, 1910.....	<u>\$760.10</u>

PLANT DISEASES, SCHOOL OF AGRICULTURE.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$400.00
Expended during year 1909-10.....	362.67
Balance July 30, 1910.....	<u>\$37.33</u>

TOBACCO CULTURE, SCHOOL OF AGRICULTURE.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$2,000.00
Expended during year 1909-10.....	1,405.75
Balance July 30, 1910.....	<u>\$594.25</u>

ERADICATION OF WEEDS, SCHOOL OF AGRICULTURE.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$1,000.00
Expended during year 1909-10.....	725.07
Balance July 30, 1910.....	\$274.93

POULTRY DEPARTMENT, SCHOOL OF AGRICULTURE.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$2,500.00
Expended during year 1909-10.....	2,479.07
Balance July 30, 1910.....	\$20.93

STATE UNIVERSITY, ENTOMOLOGIST.

Minnesota Laws 1909, Chapter 375.

Balance July 31, 1908.....	\$12.12
Appropriation for year 1908-09.....	2,000.00
Total	\$2,012.12
Expended during year 1908-09.....	\$2,005.00
Balance July 30, 1910.....	\$7.12
Balance transferred to Injurious Insects Fund.....	\$7.12

ENTOMOLOGIST CHARTS.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$3,500.00
Expended during year 1909-10.....	3,483.30
Balance July 30, 1910.....	\$16.70

INJURIOUS INSECTS, SCHOOL OF AGRICULTURE.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$1,000.00
Transferred from State "U" Entomologist Fund balance.....	7.12
Total receipts	\$1,007.12
Expended during year 1909-10.....	903.00
Balance July 30, 1910.....	\$104.12

FIRE LOSS, BARN, SCHOOL OF AGRICULTURE.

Balance July 31, 1908.....	\$8.75
Expenditures during years 1908-09 and 1909-10.....	None
Balance July 30, 1910.....	\$8.75

FIRE LOSS, HORTICULTURAL BUILDING.

Insurance collected	\$62.98
Expended during year 1908-09.....	62.98

AGRICULTURAL EXTENSION.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$50,000.00
Expended during year 1909-10.....	16,247.03
Balance July 30, 1910.....	\$33,752.97

DAIRY EXTENSION WORK.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws 1909, Chapter 375.

Appropriation for year 1908-09.....	\$1,000.00
Appropriation for year 1909-10.....	2,500.00
Receipts during year 1909-10.....	14.50
Total receipts	\$3,514.50
Expended during year 1908-09.....	\$780.52
Expended during year 1909-10.....	2,481.47
Total expenditures	3,261.99
Balance July 30, 1910.....	\$252.51

HATCH FUND, SCHOOL OF AGRICULTURE—FROM UNITED STATES GOVERNMENT.

Balance July 31, 1908.....		\$1,578.55
United States treasurer, for year 1908-09, ending June 30, 1909.....		15,000.00
United States treasurer, for year 1909-10, ending June 30, 1910.....		15,000.00
Total receipts, including balance.....		<u>\$31,578.55</u>
Expended during year 1908-09 (ending July 31, 1909).....	\$17,131.67	
Expended during year 1909-10 (ending July 30, 1910).....	11,411.92	
Total expenditures		<u>28,543.59</u>
Balance July 30, 1910.....		<u>\$3,034.96</u>

ADAMS FUND, SCHOOL OF AGRICULTURE—FROM UNITED STATES GOVERNMENT.

Balance July 31, 1908.....		\$192.26
From United States treasurer, for year ending June 30, 1909.....		10,930.07
Receipts during year 1908-09.....		37.50
From United States treasurer, for year ending June 30, 1910.....		12,774.58
Total receipts, including balance.....		<u>\$23,934.43</u>
Expended during year 1908-09, ending July 31, 1909.....	\$10,953.50	
Expended during year 1909-10, ending July 30, 1910.....	11,565.08	
Total expenditures		<u>22,518.58</u>
Balance July 30, 1910.....		<u>\$1,415.85</u>

MILITARY INSTRUCTION, SCHOOL OF AGRICULTURE.

Balance July 31, 1908.....		\$2,334.73
Appropriation for year 1908-09.....		6,000.00
Total		<u>\$8,334.73</u>
Expended during year 1908-09.....	\$7,584.82	
Expended during year 1909-10.....	231.61	
Total expenditures		<u>7,816.43</u>
Balance July 30, 1910.....		<u>\$518.30</u>

REPAIRS, PRENDERGAST HALL, AND EQUIPMENT.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1908.....		\$13,000.00
Refund during year 1909-10.....		46.08
Total receipts		<u>\$13,046.08</u>
Expended during year 1909-10.....		12,318.64
Balance July 30, 1910.....		<u>\$727.44</u>

REPAIRS, GREENHOUSE, SCHOOL OF AGRICULTURE.

Minnesota Laws 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$1,500.00
Expended during year 1909-10.....		1,207.26
Balance July 30, 1910.....		<u>\$292.74</u>

REPAIRS, VETERINARY BUILDING.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$800.00
Expended during year 1909-10.....		793.94
Balance July 30, 1910.....		<u>\$6.06</u>

UNIVERSITY FUEL FUND.

Balance July 31, 1908.....		\$724.06
Transferred from support fund during year 1908-09.....	\$35,500.00	
From Hatch fund, year 1908-09.....	2,308.67	
Total receipts		37,808.67
Grand total		\$38,532.73
Expended for fuel, year 1908-09.....		38,144.12
Balance July 31, 1909.....		\$388.61
Transferred from support fund, year 1909-10.....		35,000.00
Total		\$35,388.61
Expended during year 1909-10 for fuel.....		30,719.57
Balance July 30, 1910.....		\$4,669.04

FRUIT BREEDING FARM.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws, 1909, Chapter 375.

Balance July 31, 1908.....		\$2,817.25
Appropriation for year 1908-09.....	\$2,000.00	
Receipts during year 1908-09.....	2,238.15	
Appropriation for year 1909-10.....	2,000.00	
Receipts during year 1909-10.....	906.76	
Total receipts		5,144.91
Grand total		\$7,962.16
Expended during year 1908-09.....	\$4,809.11	
Expended during year 1909-10.....	3,152.96	
Total expenditures		7,962.07
Balance July 30, 1910.....		\$0.09

CROOKSTON SUBSTATION, SUPPORT.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws, 1909, Chapter 375.

Balance July 31, 1908.....		\$2,531.62
Appropriation for year 1908-09.....	\$8,000.00	
Receipts during year 1908-09.....	2,667.69	
Appropriation for year 1909-10.....	8,000.00	
Receipts during year 1909-10.....	4,105.21	
Total receipts		22,772.90
Grand total		\$25,304.52
Expended during year 1908-09.....	\$13,199.31	
Expended during year 1909-10.....	9,839.38	
Total expenditures		23,038.69
Balance July 30, 1910.....		\$2,265.83

CROOKSTON SCHOOL OF AGRICULTURE, SUPPORT.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws, 1909, Chapter 375.

Balance July 31, 1908.....		\$594.26
Appropriation for year 1908-09.....	\$4,000.00	
Receipts during year 1908-09.....	375.49	
Appropriation for year 1909-10.....	15,000.00	
Receipts during year 1909-10.....	2,105.71	
Total receipts		21,481.20
Grand total		\$22,075.46
Expended during year 1908-09.....	\$4,751.31	
Expended during year 1909-10.....	13,105.57	
Total expenditures		17,856.88
Balance July 30, 1910.....		\$4,218.58

CROOKSTON AGRICULTURAL SCHOOL, DORMITORY AND EQUIPMENT.

Balance July 31, 1908.....		\$15,267.05
Expended during year 1908-09.....	\$14,832.05	
Expended during year 1909-10.....	282.46	
Total expenditures		15,114.51
Balance July 30, 1910.....		\$152.54

CROOKSTON INDUSTRIAL BUILDING.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1908.....		\$15,000.00
Expended during year 1908-09.....	\$14,313.10	
Expended during year 1909-10.....	516.00	
Total expenditures		14,829.10
Balance July 30, 1910.....		\$170.90

CROOKSTON, WATER SYSTEM.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$2,000.00
Expended during year 1909-10.....		2,000.00

CROOKSTON BUILDING, LIBRARY AND DRILL HALL.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$40,000.00
Expended during year 1909-10.....		26,019.15
Balance July 30, 1910.....		\$13,980.85

CROOKSTON, ROOT CELLAR.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....		\$1,000.00
Expended during year 1909-10.....		792.22
Balance July 30, 1910.....		\$207.78

CROOKSTON, DRAINAGE.

Balance July 31, 1908.....		\$864.09
Expended during year 1908-09.....	\$351.90	
Expended during year 1909-10.....	6.81	
Total expenditures		358.71
Balance July 30, 1910.....		\$505.38

CROOKSTON, SCHOOL BUILDING EQUIPMENT.

Balance July 31, 1908.....		\$221.16
Expenditures during years 1908-09 and 1909-10.....		None
Balance July 30, 1910.....		\$221.16

GRAND RAPIDS SUBSTATION, SUPPORT.

Minnesota Laws 1907, Chapter 476.

Minnesota Laws, 1909, Chapter 375.

Balance July 31, 1908.....		\$875.86
Appropriation for year 1908-09.....	\$5,000.00	
Receipts during year 1908-09.....	2,576.51	
Appropriation for year 1909-10.....	7,000.00	
Receipts during year 1909-10.....	4,694.99	
Total receipts		19,271.50
Grand total		\$20,147.36
Expended during year 1908-09.....	\$8,426.30	
Expended during year 1909-10.....	9,840.23	
Total expenditures		18,266.53
Balance July 30, 1910.....		\$1,880.83

GRAND RAPIDS, DRAINAGE.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$4,000.00
Expended during year 1909-10.....	785.37
Balance July 30, 1910.....	<u>\$3,214.63</u>

GRAND RAPIDS, DAIRY BUILDING.

Balance July 31, 1908.....	\$63.57
Expenditures during years 1908-09 and 1909-10.....	None
Balance July 30, 1910.....	<u>\$63.57</u>

FORESTRY SCHOOL, SUPPORT.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$4,000.00
Expended during year 1909-10.....	2,838.56
Balance July 30, 1910.....	<u>\$1,161.44</u>

FORESTRY SCHOOL, INSTRUCTORS.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$5,000.00
Expended during year 1909-10.....	2,513.42
Balance July 30, 1910.....	<u>\$2,486.58</u>

FOREST EXPERIMENTS,, ETC.

Minnesota Laws, 1909, Chapter 375.

New appropriation available August 1, 1909.....	\$2,500.00
Expended during year 1909-10.....	793.41
Balance July 30, 1910.....	<u>\$1,706.59</u>

FOREST LAND.

Minnesota Laws, 1909, Chap.

New appropriation available August 1, 1909.....	\$5,000.00
Expended during year 1909-10.....	1,860.00
Balance July 30, 1910.....	<u>\$3,140.00</u>

ITASCA STATE PARK.

Balance July 31, 1908	\$476.53
Appropriation for year 1908-09.....	2,000.00
Receipts during year 1908-09.....	40.84
Receipts during year 1909-10.....	32.00
Total receipts	<u>\$2,549.37</u>
Expended during year 1908-09.....	\$1,903.47
Expended during year 1909-10.....	600.42
Total expenditures	<u>2,503.89</u>
Balance July 30, 1910.....	<u>\$45.48</u>

MORRIS SUBSTATION, SUPPORT.

Receipts during year 1909-10.....	\$10.00
Expenditures during year 1909-10.....	None
Balance July 30, 1910.....	<u>\$10.00</u>

ELLIOTT HOSPITAL BUILDING FUND.

April 8, 1907, gift from the Elliott estate.....	\$113,000.00
Interest to Aug. 1, 1910.....	7,469.02
Total receipts	<u>\$120,469.02</u>
Expended May 14, 1908, architect's services.....	500.00
Balance July 31, 1910.....	<u>\$119,969.02</u>

ELLIOTT HOSPITAL SITE FUND.

Subscriptions to Aug. 1, 1910.....	\$40,100.00
Interest on bank deposits to July 31, 1910.....	841.81
Total receipts	\$40,941.81
Expended for land, new campus extension.....	35,517.70
Balance July 31, 1910.....	\$5,424.11

ACQUIRING LAND FOR NEW CAMPUS.

Minneapolis, December 6, 1910.

Honorable John Lind, President Board of Regents.

Sir: I have the honor to submit a report of the acquisitions of land by purchase and condemnation for the extension of the campus under Chapter 359 Laws 1907 and Chapter 480 Laws 1909.

I am preparing this report with special reference to the descriptions, the method of acquisition, consideration paid, and the record of the title secured. It leaves out entirely the incidental expenses. The cashier's records contain the exact information upon this point, to which I respectfully refer you.

The considerable delay in many cases between the dates of the various deeds and the time of recording was occasioned by the fact that there were unpaid taxes against the lands at the time of settlement in the condemnation proceedings. I retained the deeds until I could secure, by application to the county commissioners and to the State Tax Commission and in some instances by answer in the delinquent tax proceedings and the judgment of the court, a cancellation of the taxes which stood upon the books of the county auditor and county treasurer. In a few instances such taxes have not been cancelled and the deeds are still unrecorded. Applications are pending for the cancellation of these remaining taxes, and the deeds will be recorded as soon as the applications are granted.

There is no way, in condemnation cases, of compelling owners to execute deeds or to sign any other papers, excepting, perhaps, receipts for money paid. I have endeavored, however to secure deeds and have succeeded in all but a few instances, namely: John J. Hankinson, the owner of a part of Lot 1, Block 12; Margaret M. Devlin, the owner of Lot 9, Block 20; Frank Berry and Herbert Cullen Berry, minors, part owners of Lot 8, Block 10, and Lot 6, Block 27; D. W. Fagan, the owner of part of Lots 1 and 2, Block 28; Edward Maloney, the owner of Lots 4 and 5, Block 28; James Burns and Mary Burns, minors, the owners of Lot 2, Block 37; Michael J. Shelley, the owner of Lots 1 and 2 and part of Lot 3, Block 38, and Arthur McMullen, the owner of Lots 1, 3 and 4, excepting parkway, Block 39, and Dennis Trainor, part owner Lots 2, 3 and 4, Block 44, except parkway.

In cases of purchase the record of title consists of the owner's recorded deed. In cases of condemnation it consists of notice of lis pendens and the final decree of the District Court of Hennepin county, a certified copy of which has been recorded in the office of the Register of Deeds, and in addition the owner's deed, with the exceptions already mentioned.

The lands acquired were all platted, with the usual streets at intervals of about 400 feet. In order to permit the university to use the lands as a single tract so far as possible, the city council of the City of Minneapolis

has, upon the petition of the Board of Regents, vacated all of the streets dividing the lands acquired, excepting Washington avenue southeast, which is a main artery between Minneapolis and St. Paul, and that portion of Pleasant street lying north of the south line of Beacon street, and that portion of Beacon street lying west of the east line of Pleasant street. The latter two fractions of streets were omitted for the purpose of leaving a connection between River Road east, on the westerly boundary of the lands acquired, and the parkway which crosses the campus. The resolutions of the council will be found in the proceedings of the city council of March 18, 1910, page 223, and May 13, 1910, page 476.

The University of Minnesota now has, in my opinion, good title for campus purposes to the following described lands, namely, Lots 1, 2, 3, 8, 9 and 10 in Block 10; Lots 1, 2, 3, 8, 9, and 10 in Block 11; Lots 1, 2, 3, 8, 9, and 10 in Block 12; Lots 1, 2, 3, 8, 9 and 10 in Block 13; all of Blocks 20, 21, 22, 23, 26, 27, 28, 29, 36, 37, 38 and 39, excepting the westerly 20 feet of Blocks 23, 26 and 29, held by the City of Minneapolis for parkway purposes; Lots 1, 2, 3, 4 and 5 in Block 44, excepting that part of Lots 4 and 5 owned by the City of Minneapolis for parkway purposes, described as follows, beginning at the southwest corner of Lot 5, thence east along the south line of 4 and Lots 5, 140 feet, thence northwesterly to a point in the west line of Lot 5, distant 50 feet north of the southwest corner, thence south to the point of beginning, all in St. Anthony City, according to the recorded plat thereof.

The method of acquisition has been as follows:

PURCHASES.

Lots 2 and 9, block 10; warranty deed, Thomas W. Pierce; dated, August 3, 1907; recorded, August 19, 1907; 624 deeds, 265; consideration, \$2,400.00. Quit-claim deed, William H. Doty and wife; dated, August 3, 1907; recorded, August 19, 1907; 586 deeds, 458; consideration, \$800.00.

West half lots 9 and 10, block 11; warranty deed, Eliza S. Smith; July 16, 1907; recorded, September 3, 1907; 627 deeds, 226; consideration, \$6,000.00.

West $\frac{2}{3}$ lot 10, block 12; warranty deed, Martha R. Pattee; July 16, 1907; recorded, September 3, 1907; 627 deeds, 233; consideration, \$4,800.00.

East 55 feet lot 10, block 12, and south 44 feet of front 110 feet lot 9, block 21; warranty deed, Annie Ryan; July 16, 1908; recorded, July 16, 1908; 649 deeds, 367; consideration, \$9,300.00.

East $\frac{1}{3}$ lots 1 and 2, block 13; warranty deed, Frank R. Watts and wife; August 20, 1907; recorded, September 9, 1907; 627 deeds, 240; consideration, \$4,950.00.

West 55 feet of east 110 feet lots 1 and 2, block 13; warranty deed, Swan Nelson and wife; December 16, 1907; recorded, December 31, 1907; 607 deeds, 582; consideration, \$11,425.00.

All of the south half and rear 41 feet of the north half lot 2, block 20; warranty deed, Frank M. Durgin and wife; August 20, 1907; recorded, September 13, 1907; 627 deeds, 244; consideration, \$2,500.00.

East 41 feet of west 82 feet of lot 1, block 20; warranty deed, Malin Johnson and husband; July 31, 1909; recorded, August 12, 1909; 662 deeds, 558; consideration, \$4,400.00; buildings reserved.

West 41 feet lot 1, block 20; warranty deed, Frederick Brinkman and wife; July 16, 1909; recorded, July 28, 1909; 654 deeds, 361; consideration, \$4,000.00.

Lot 4, block 20; warranty deed, Henry L. Moeller and wife; July 8, 1909; recorded, July 27, 1909; 654 deeds, 359; consideration, \$5,150.00; buildings reserved.

Lot 5, block 20; warranty deed, Frederick Erkel; August 19, 1909; recorded, August 18, 1909; 662 deeds, 586; consideration, \$4,750.00.

Lot 6, block 20; warranty deed, Israel W. Cone and wife; June 22, 1909; recorded, July 2, 1909; 662 deeds, 448; consideration, \$4,750.00.

Lot 7, block 20; warranty deed, Hardwood Manufacturing Company; August 2, 1909; recorded, August 11, 1909; 666 deeds, 632; consideration, \$4,250.00; buildings reserved.

Rear or westerly 55 feet lots 1 and 2, block 21; warranty deed, Fritz J. Young and wife; August 24, 1907; recorded, September 11, 1907; 631 deeds, 189; consideration, \$10,000.00.

Front 110 feet of northerly 40 feet lot 2, block 21; warranty deed, Henry A. Erickson and wife; September 1, 1909; recorded, September 20, 1909; 670 deeds, 6; consideration, \$5,100.00; buildings reserved.

Lot 3, block 21, excepting north 9 feet of front 120 feet; warranty deed, John A. Gonestead and wife, June 4, 1909; recorded, June 12, 1909; 654 deeds, 190; consideration, \$5,300.00; buildings reserved.

North 9 feet of east 120 feet lot 3 and south 41 feet of east 120 feet lot 4, block 21; warranty deed, Grace J. Ripley; June 11, 1909; recorded, June 19, 1909; 654 deeds, 206; consideration, \$5,100.00.

East 120 feet lot 5 and north 25 feet of east 120 feet lot 4, block 21; warranty deed, Thomas A. Kelly and wife; August 2, 1909; recorded, August 11, 1909; 654 deeds, 435; consideration, \$13,500.00; buildings reserved.

Rear 45 feet lots 4 and 5, block 21; warranty deed, Julia Ofstie and husband; June 12, 1909; recorded, June 25, 1909; 654 deeds, 229; consideration, \$4,750.00; buildings reserved.

West 75 feet lot 10, block 21; warranty deed, James R. Canterbury and wife; August 20, 1907; recorded, September 5, 1907; 624 deeds, 298; consideration, \$8,338.25.

Lot 10, block 22, lots 2 and 7, block 23; warranty deed, Edna Kruse and husband; Torrens certificate, August 9, 1907; consideration, \$4,200.00.

East 55 feet lot 5, block 23; special warranty deed, Fred B. Chute; August 12, 1907; recorded, August 19, 1907; 623 deeds, 114; consideration, \$2,500.00.

Lot 8, block 23, and west 55 feet lots 4 and 5, block 27; warranty deed, Hattie W. Lonergan and husband; August 20, 1907; recorded, September 30, 1907; 607 deeds, 424; consideration, \$2,100.00.

Lot 9, block 23; warranty deed, Sewall M. Parker and wife; July 11, 1907; recorded, July 17, 1907; 627 deeds, 143; consideration, \$1,150.00.

Lot 1, block 26; special warranty deed, Sarah P. Gale and husband; May 6, 1907; recorded, April 22, 1910; 669 deeds, 515; consideration, \$1.00.

South half lot 9, block 26, warranty deed, U. S. Installment Realty Company; 1907; recorded, August 13, 1907; 627 deeds, 195; consideration, \$2,900.00.

South half lot 9, block 26; warranty deed, Gustave H. Dorn and wife; July 16, 1907; recorded, August 20, 1907; 639 deeds, 190; consideration, \$2,640.00.

Lot 9, block 27; warranty deed, James R. Canterbury and wife; July 17, 1907; recorded, July 22, 1907; 627 deeds, 149; consideration, \$1,600.00.

Lots 9 and 10, block 36, excepting north 110 feet; warranty deed, Joseph B. Pike and wife; June 23, 1909; recorded, June 25, 1909; 654 deeds, 228; consideration, \$7,250.00.

South 55 feet of north 110 feet lots 9 and 10, block 36; warranty deed, Carl Schlenker and wife; June 25, 1909; recorded, July 9, 1909; 663 deeds, 329; consideration, \$7,500.00; buildings reserved.

North 55 feet lots 9 and 10, block 36; warranty deed, Edward M. Freeman and wife; August 2, 1909; recorded, August 6, 1909; 654 deeds, 410; consideration, \$2,500.00.

South $\frac{1}{2}$ lots 1 and 2, block 36; warranty deed, Asher E. Morris and wife; August 19, 1909; recorded, September 27, 1909; 654 deeds, 549; consideration, \$4,200.00.

East 29 feet lot 3 and undivided half of westerly 8 feet of easterly 37 feet of lot 3, block 36; warranty deed, Anthony F. Elmquist and wife; June 5, 1909; recorded, July 20, 1909; 654 deeds, 287; consideration, \$5,700.00.

Westerly 29 feet of lot 3 and undivided half of westerly 8 feet of easterly 37 feet lot 3, block 36; warranty deed, William L. Fahey, Bridget Fahey, Ella Fahey; August 12, 1909; recorded, September 18, 1909; 654 deeds, 540; consideration, \$4,000.00; buildings reserved.

East half lot 4, block 36, excepting the southerly 33 feet thereof; warranty deed, William D. Crouley, Lulu B. Bloye and husband; dated, June 29, 1909; recorded, August 5, 1909; 654 deeds, 402; consideration, \$3,200.00; buildings reserved.

West half of the front 132 feet lot 4, block 36; warranty deed, Iver Sundby and wife; July 13, 1909; recorded, July 21, 1909; 663 deeds, 354; consideration, \$3,550.00; buildings reserved.

East half lot 5, block 36, excepting the southerly 33 feet thereof; warranty deed, Marv J. Crawford and husband; June 21, 1909; recorded, June 21, 1909; 663 deeds, 301; consideration, \$3,200.00; buildings reserved.

West half lot 5, block 36, except the southerly 33 feet thereof; warranty deed, Elmer F. Altman and wife; July 27, 1909; recorded, August 6, 1909; 654 deeds, 404; consideration, \$3,600.00; buildings reserved.

Southerly 33 feet lots 4 and 5, block 36; warranty deed, Gottlieb Bodamer and wife; August 2, 1909; recorded, August 6, 1909; 654 deeds, 406; consideration, \$3,400.00; free occupation of buildings until November 1, 1909.

West 50 feet lot 7, block 36; warranty deed, Katherine A. Baker and husband; July 22, 1909; recorded, July 27, 1909; 654 deeds, 358; consideration, \$2,350.00.

East 16 feet lot 7 and west 25 feet lot 8, block 36; warranty deed, Mamie Porsch (widow), Grace Porsch (unmarried), Myrtle Kendall and husband; June 10, 1909; recorded, August 10, 1909; 654 deeds, 428; consideration, \$4,200.00.

Lots 4, 5, 6, 7 and 8 in block 37; warranty deed, George M. Bleecker and wife; June 13, 1908; recorded, June 23, 1908; 625 deeds, 370; consideration, \$5,250.00.

East 110 feet of lots 4 and 5 and east 110 feet of north 10 feet of lot 3, block 38; warranty deed of an undivided $\frac{1}{3}$, Michael J. Shelley; May 12, 1908; recorded, June 11, 1908; 650 deeds, 244; consideration, \$1,280.35.

Deed of an undivided $\frac{2}{3}$ of the above property; Michael J. Shelley, as guardian of Joseph M. Shelley, Margaret A. Shelley and Elizabeth E. Shelley, minors; May 12, 1908; recorded, June 11, 1908; 650 deeds, 242; consideration, \$2,560.70.

PROCEEDINGS IN EMINENT DOMAIN.

STATE OF MINNESOTA AND UNIVERSITY OF MINNESOTA, against MARGARET CULLEN AND OTHERS.

Petition and lis pendens filed October 17, 1907; commissioners' report filed January 29, 1908; final decree entered March 9, 1909; certified copy recorded in the office of the register of deeds March 10, 1909, book 120, miscellaneous, 541, etc.

Lot 1, block 10; award to Margaret Cullen, \$7,000.00; petitioners appealed; appeal dismissed by order of court; award paid August 24, 1908, with interest, \$7,-239.16; warranty deed, Margaret Cullen, August 24, 1908; recorded, April 22, 1910; 675 deeds, 213.

Lot 3, block 10; award to Jennie Estabrook, \$2,000.00; paid, February 19, 1908, with interest, \$2,010.00; warranty deed, Jennie Estabrook and husband, February 19, 1908; recorded, April 22, 1910; 643 deeds, 582.

Lot 8, block 10; award to John Cullen, Margaret Cullen, Jennie Estabrook, Elizabeth Cullen, Frank Berry, a minor, Herbert Cullen Berry, a minor, \$2,000.00; paid February 19, 1908, with interest, \$2,010.00; warranty deed, John Cullen et al., February 19, 1908; recorded, April 22, 1910; 682 deeds, 50.

Lot 10, block 10; award to Elizabeth Cullen, \$2,500.00; paid March 11, 1908, with interest, \$2,518.75; warranty deed, Elizabeth Cullen, February 19, 1908; recorded, April 21, 1910; 674 deeds, 383.

Lot 1 and south half lot 2, block 11; award to William Kerchner, lessee, \$1.00; to the Acacia Club of the University of Minnesota, lessee, \$1.00; to Clara Gilmore, owner, \$11,500.00; Clara Gilmore appealed, but appeal was not tried; awards paid, with interest, as follows: Kerchner, February 25, 1909, \$1.07; Acacia Club, February 19, 1909, \$1.07; Gilmore, June 13, 1908, \$11,586.25 and \$86.25; warranty deed, Clara Gilmore, June 8, 1908; recorded, April 22, 1910; 643 deeds, 583.

Lot 3 and north half lot 2, block 11; award to Mary E. Pratt, lessee, \$1.00; R. D. and W. D. Kavanaugh, lessees, \$1.00; Mary V. Jackson, mortgagee, \$2,782.62; R. A. Ogaard, mortgagee, \$1,544.25; Newton H. Winchell, owner, \$4,673.13; Winchell appealed, case tried, verdict \$9,461.29 as aggregate value of property besides taxes; awards paid, with interest, as follows: Pratt, July 9, 1908, \$1.03; Kavanaughs, July 9, 1908, \$1.03; Jackson, February 19, 1908, \$2,810.45; Ogaard, June, 1908, \$1,-582.85; Winchell, \$5,388.88, June, 1908, as follows: \$5,134.42, with interest from January 29, plus taxes paid by Winchell, \$69.36, plus costs and disbursements, \$56.75; warranty deed, Newton H. Winchell and wife, June 20, 1908; recorded, April 22, 1910; 643 deeds, 583.

Lot 8, block 11; award to I. W. Switzer and Pora Switzer, \$5,700.00; paid February 13, 1908, \$5,700.00; warranty deed, I. W. Switzer and wife, February 13, 1908; recorded, April 22, 1910; 643 deeds, 584.

East fourth lots 9 and 10, block 11; award to Jacob Stoft and Hans Simonson, mortgagees, \$2,043.66; E. Eidsvold, owner, \$2,556.34; paid, with interest, Stoft and Simonson, February 19, 1908, \$2,053.88; Eidsvold, February, 19, 1908, \$2,569.12; warranty deed, E. Eidsvold and wife, February 19, 1908; recorded, April 22, 1910; 643 deeds, 584.

W $\frac{1}{2}$ of E $\frac{1}{2}$ lots 9 and 10, block 11; award to Phi Rho Sigma Fraternity, lessee, \$1.00; Jacob Stoft and Hans Simonson, owners, \$4,800.00; paid, Fraternity, February 19, 1908, \$1.00; paid Stoft and Simonson, with interest, February 19, 1908, \$4,824.00; **warranty deed**, Jacob Stoft and wife and Hans Simonsin, February 19, 1908; recorded, April 22, 1910; 682 deeds, 51.

Front 132 $\frac{1}{2}$ feet lot 1, block 22; award to John W. Budds, \$2,800.00; petitioners appealed, case tried, verdict \$2,612.41; paid, with interest, July 3, 1908, less \$27.00 costs and disbursements, \$2,650.71; warranty deed, John W. Budds and wife, June 27, 1908; recorded, April 22, 1910; 674 deeds, 389.

Rear or westerly 32 $\frac{1}{2}$ feet lot 1, block 22; award to George H. Budds, \$600.00; petitioners appealed, case tried, verdict \$595.30; paid, with interest, July 3, 1908, less \$27.00 costs and disbursements, \$583.20; warranty deed, George H. Budds and wife, June 25, 1908; recorded, April 22, 1910; book 674 deeds, 384.

Lot 3, block 22; award to James H. Budds, \$5,000.00; paid March 18, 1908, with interest, \$5,041.66; warranty deed, Dora Budds, February 19, 1908; recorded, April 22, 1910; book 674 deeds, 384.

Lot 3, block 22; award to James H. Budds, \$5,000.00; paid March 18, 1908, with interest, \$5,041.66; warranty deed, James Budds and wife, March 18, 1908; recorded, April 22, 1910; book 674 deeds, 385.

Lot 4, block 22; award to Minnie Boyd and J. F. Bolger, lessees, \$1.00; Edward Maloney, owner, \$7,700.00; paid February 19, 1908, Boyd and Bolger, \$1.00; Maloney, with interest, \$7,738.50; warranty deed, Edward Maloney and wife, February 19, 1908; recorded, April 22, 1910; 674 deeds, 385.

Lot 5 and E. 73 feet lot 6, block 22; award to F. R. McQueen, lessee, \$1.00; Peter Christianson, lessee, \$1.00; John Cullen, owner, \$15,760.00; petitioners appealed, case tried, verdict \$12,000.00; paid on settlement, September 12, 1908, \$13,-817.94; paid Christianson, with interest, \$1.04; paid McQueen, with interest, \$1.04; warranty deed, John Cullen and wife, September 12, 1908; recorded, April 22, 1910; 675 deeds, 214.

West 92 feet lot 6, block 22; award to Minnesota Loan & Trust Company, mortgagee, \$1,007.89; Edward S. Cullen, owner, \$5,242.11; Cullen appealed, but appeal not tried; paid Cullen on settlement, September 28, 1908, \$5,000.00, out of which Cullen paid amount due mortgagee; warranty deed, September 19, 1908, Edward Cullen and wife; recorded, April 22, 1910; 682 deeds, 52; buildings reserved.

Lot 7, block 22; award to George S. Stebbins, lessee, \$1.00; Arthur H. Lang, lessee, \$1.00; John Cullen, owner, \$8,200.00; awards paid February 19, 1908: Stebbins, \$1.00; Lang, \$1.00; Cullen, with interest, March 2, 1908, \$8,241.00; warranty deed, John Cullen and wife, March 2, 1908; recorded, April 22, 1910; 675 deeds, 214.

North half lot 8, block 22; award to J. V. Martinis, lessee, \$1.00; Gustav Dorn, mortgagee, \$2,556.87; Alice June Minor, owner, \$1,993.13; Minor appealed, settled out of court; paid as follows: Martinis, \$1.07; Minor, May 6, 1908, \$4,000.00, out of which paid amount due mortgagee; buildings reserved; warranty deed, Alice June Minor, April 18, 1908; recorded, April 22, 1910; 682 deeds, 53.

South half lot 8, block 22; award to Henrietta Schultz, mortgagee, \$206.89; Ida Auguste Louise Steele, owner, \$693.11; paid, with interest, February 19, 1908, Schultz, \$208.44; Steele, \$698.31; warranty deed, Ida Auguste Louise Steele and husband, February 19, 1908; recorded, April 22, 1910; 675 deeds, 215.

Lot 9, block 22; award to S. T. Olson, lessee, \$1.00; Alfred F. Kenyon, equitable mortgagee, \$1.00; Albert H. Kenyon, owner, \$4,060.00; petitioners appealed, settled out of court; awards paid: Olson, \$107; A. H. Kenyon, \$3,780.00, out of which he paid A. F. Kenyon; warranty deed, Alfred H. Kenyon, December 16, 1908; recorded, April 21, 1910; 674 deeds, 381.

Lot 1, block 23; award to Ole Elwell, lessee, \$1.00; R. H. Newlon, lessee, \$300.00; Mrs. M. E. Carl, lessee, \$1.00; Fritz J. Young, lessee, \$2,200.00; Edward Maloney, owner, \$4,000.00; petitioners appealed, appeal tried, verdict rendered, to Maloney, \$4,600.00, and to Newlon, \$300.00; dismissed as to Young; awards paid: Newlon, July 3, 1908, \$325.50, including interest and \$18.00 costs; Carl, July 9, 1908, \$1.03; Maloney, July 3, 1908, \$4,715.00, including interest; warranty deed, Edward Maloney, June 29, 1908; recorded, July 6, 1908; 635 deeds, 160. The award to Young was not paid; his lease expired in October, 1909, leaving title clear.

Lot 3, block 23; award to Minneapolis Savings & Loan Association, mortgagee, \$1,296.95; Mary B. Van Deren, owner, \$3,103.00; paid with interest, mortgagee, February 19, 1908, \$1,306.68; Van Deren, February 19, 1908, \$3,126.31; warranty deed, Mary B. Van Deren and husband, February 19, 1908; recorded, April 22, 1910; 675 deeds, 215.

South half lot 4, block 23; award to Minneapolis Savings & Loan Association, mortgagee, \$1,272.87; to Mrs. J. B. Rivett, lessee, \$1.00; to Edgar O. Wilson, lessee, \$1.00; to Gustav W. Noble, owner, \$2,727.13; awards paid, with interest: mortgagee, February 19, 1908, \$1,282.42; Rivett, February 19, 1908, \$1.00; Wilson, February 19, 1908, \$1.00; Noble, February 19, 1908, \$2,747.57; warranty deed, Gustaf W. Noble and wife, February 19, 1908; recorded, April 22, 1910; 675 deeds, 216.

North half lot 4, block 23; award to D. C. Cunningham, lessee, \$1.00; L. A. Tannehill, lessee, \$1.00; Joseph O. Jorgens, owner, \$3,900.00; paid, as follows, with interest, February 19, 1908, Cunningham, \$1.00; Tannehill, \$1.00; Jorgens, \$3,319.50; warranty deed, Joseph O. Jorgens and wife, February 19, 1908; recorded, April 22, 1910; 675 deeds, 216.

East half foot of west 60½ feet of lot 5, block 23; award to Lucy H. Duncan, \$1.00; paid March 9, 1908, \$1.00; warranty deed, March 9, 1909, Lucy Duncan and husband; recorded, April 22, 1910; 677 deeds, 215.

East 41½ feet of west 60 feet lot 5, block 23; award to Frederic H. Bass, \$4,-550.00; respondent appealed, settled out of court; paid February 19, 1908, \$3,650.00; warranty deed, Frederick H. Bass and wife, February 19, 1908; recorded April 22, 1910; 675 deeds, 217; buildings reserved.

West 15½ feet lot 5 and east 29½ feet lot 6, block 23; award to J. B. Johnston, lessee, \$1.00; G. Walter Bass, owner, \$3,950.00; Bass appealed, settled out of court; awards paid, with interest, Johnston, \$1.07; Bass, \$3,974.36, June 17, 1908; warranty deed, G. Walter Bass and wife, May 11, 1908; recorded, April 30, 1910; 671 deeds, 309, etc.

East 66 feet of west 86 feet lot 6, block 23; award to Joseph G. Smith, mortgagee, \$2,556.15; Frank J. Kline, Association of Theta Delta Chi, owner, \$4,243.85; awards paid, with interest, February 19, 1908: mortgagee, \$2,568.93; owner, \$4,265.07; warranty deed, The Frank J. Kline Association of Theta Delta Chi, February 21, 1908; recorded, April 22, 1910; 678 deeds, 635.

Lot 10, block 23; award to Edward Maloney, \$3,250.00; petitioners appealed, appeal tried and verdict rendered, \$2,280.65; paid, with interest, July 3, 1908, \$2,-338.15, and \$9.68 taxes paid by owner; quit-claim deed, Edward Maloney and wife, June 25, 1908.

STATE OF MINNESOTA AND UNIVERSITY OF MINNESOTA,
against
SARAH P. GALE AND OTHERS.

Petition and lis pendens filed October 4, 1907; commissioners' report filed January 29, 1908; final decree entered September, 1909; certified copy recorded in the office of the register of deeds September 22, 1909; 124 miscellaneous, 25, etc.

Lot 2, block 26; award to Mary Keller, mortgagee, \$926.10; Patrick Kelly, owner, \$2,573.90; paid February 19, 1908, Keller, \$930.73; February 27, 1908, Kelley, \$2,586.77; warranty deed, Patrick Kelly and wife, February 19, 1908; recorded April 22, 1910; 675 deeds, 217.

Lots 3, 4, 5, 6 and 7, block 26, except west 20 feet of lots 6 and 7; award to Katie Walther, mortgagee, \$3,159.40; Trustees of Greek Orthodox Church, \$13,340.60; the trustees appealed, appeal tried and verdict rendered; Katie Walther, \$3,159.40; Trustees of Greek Orthodox Church, \$13,688.68; paid August 29, 1908, in settlement, Trustees, \$17,000.00, out of which they paid mortgagee; quit-claim deed, Trustees of Greek Orthodox Church, November 18, 1908; recorded, April 22, 1910; 685 deeds, 27; reserving right to occupy buildings, free of rent, until June 1, 1909.

Lot 8, block 26, except west 20 feet thereof; award to Kate Shea and Lizzie Shea, \$5,000.00; Victor Callender, lessee, \$1.00; owners paid, with interest, March 23, 1908, \$5,041.66; warranty deed, Kate Shea and Lizzie Shea, March 23, 1908.

Lot 10, block 26, except west 20 feet thereof; award to Edward Maloney, \$1,600.00; paid, with interest, February 19, 1908, \$1,608.00; warranty deed, Edward Maloney, February 19, 1908; recorded, 675 deeds, 218, April 22, 1910.

Lots 1, 2 and 3, block 27; award to Oric O. Whited for lots 1 and 2, \$3,500.00; to Whited, as record owner lot 3, \$1.00; to Ralph G. Colier, equitable owner lot 3, \$5,500.00; petitioners appealed, appeal settled out of court; paid Whited, May, 1909, \$3,500.00; paid Colier, September 23, 1908, \$5,600.00; warranty deed, Ralph G. Colier and wife, lot 3, September 22, 1908; recorded April 22, 1910; 675 deeds, 219; warranty deed, Oric O. Whited, lots 1 and 2, May 10, 1909; recorded April 22, 1910; 675 deeds, 218.

Front 110 feet lots 4 and 5, block 27; award to Mary E. Lovett, owner, \$11,500.00; to Margaret Forest, lessee, \$1.00; paid, with interest, February 19, 1908, Lovett, \$11,557.50; Forest, \$1.00; warranty deed, Mary E. Lovett, February 19, 1908; recorded, April 22, 1910; 675 deeds, 220.

Lot 6, block 27; award to Frank Berry and Herbert Cullen Berry, minors, \$3,000.00; to Frank and Caroline Carlson, lessees and owners of buildings, \$500.00; petitioners appealed as to Berry award, appeal tried and verdict rendered, to Carlsons, \$500.00; to Berrys, \$1,655.66; paid Berrys on settlement January 30, 1909, \$2,332.83; paid Carlsons November 17, 1908, \$520.50; warranty deed, John Cullen, guardian of Frank and Herbert Cullen Berry, minors, January 30, 1909; recorded April 22, 1910; 669 deeds, 516; quit-claim deed from Carlsons; warranty deed, Frank Berry undivided $\frac{1}{2}$, January 30, 1909; recorded, April 22, 1910; 675 deeds, 220.

Lot 7, block 27; award to Stella Delapenha, mortgagee, \$2,585.81; Mrs. G. Gunderson, lessee, \$1.00; P. Anderson, lessee, \$1.00; Carl G. Lindou, owner, \$6,414.19; respondent Lindou appealed, settled out of court; paid February 19, 1908, mortgagee, \$2,607.39; Lindou, \$6,467.64; warranty deed, Carl G. Lindou and wife, March 17, 1908; recorded, April 22, 1910; 675 deeds, 221.

Lot 8, block 27; award to Enda Simpson, \$1,300.00; paid, with interest, February 19, 1908, \$1,306.50; warranty deed, Edna E. Simpson and husband, February 19, 1908; recorded, April 22, 1910; 675 deeds, 221.

Lot 10, block 27; award to John Kvizan, et al., trustees, \$1,900.00; paid February 19, 1908, with interest, \$1,909.50; warranty deed, John Kvizan et al., February 19, 1908; recorded, April 22, 1910; 669 deeds, 517.

Lots 1, 2 and 3, block 38, except north 10 feet of lot 3; award to Charles Gustafson, lessee, \$1.00; to Michael J. Shelley, owner, \$8,184.00; paid, with interest, lessee, March 13, 1908, \$1.01; owner, February 19, 1908, \$8,224.92.

West 55 feet lots 4 and 5, and west 55 feet of north 10 feet lot 3, block 38; award to Elizabeth Kops Downey, \$1,755.00; paid, with interest, February 19, 1908, \$1,763.78; warranty deed, Elizabeth Kops Downey and husband, February 19, 1908; recorded, April 22, 1910; 675 deeds, 222.

Lots 6, 7, 8, 9 and 10, block 38; award to Bridget Ryan, \$7,500.00; paid, with interest, February 19, 1908, \$7,537.50; warranty deed, Bridget Ryan and husband, February 19, 1908; recorded, April 22, 1910; 675 deeds, 222.

Lot 1, block 39; award to Arthur McMullen, subject to adverse claims, \$600.00; award paid into court, \$606.00.

Lot 2, block 39, except west 20 feet thereof; award to Edward Maloney, \$1,150.00; paid, with interest, February 19, 1908, \$1,155.75; warranty deed, Edward Maloney and wife, February 19, 1908; recorded, April 22, 1910; 675 deeds, 223.

Lots 3 and 4, block 39, except west 20 feet thereof; award to Arthur McMullen, owner, subject to adverse claims, \$6,000.00; to Northern Display Advertising Company, occupant of premises, one cent; paid, with interest, owner, March 27, 1908, \$6,060.00; occupant, March 13, 1908, one cent.

Lot 5, block 39; award to Carrie E. Chatfield, owner, \$4,000.00; award to Northern Display Advertising Company, occupant, one cent; petitioners appealed, appeal tried and verdict rendered, \$2,138.11; paid owner December 23, 1908, in settlement, \$2,750.00; warranty deed, Carrie E. Chatfield and husband, December 23, 1908; recorded, April 22, 1910; 675 deeds, 223.

STATE OF MINNESOTA AND UNIVERSITY OF MINNESOTA,
against
MARY BOWEN AND OTHERS.

Petition and lis pendens filed February 19, 1908; commissioners' report filed September 10, 1908; final judgment entered December 10, 1909; certified copy recorded in the office of the register of deeds December 11, 1909; book 104, miscellaneous 612, etc.

East 45 feet lot 1, block 12; award to Mary Bowen, \$4,167.61; taxes, \$22.39; paid owner, November, 1908, \$4,209.29; warranty deed, November 6, 1908, Mary Bower; recorded, April 22, 1910; 674 deeds, 386.

West 45 feet of east 90 feet lot 1, block 12; award, taxes, \$17.38; Martin E. Tanberg, \$3,542.62; paid owner, November 5, 1908, \$3,578.04; warranty deed, Martin E. Tanberg and wife, November 2, 1908; recorded, April 22, 1910; 674 deeds, 386.

West 75 feet lot 1, block 12; award, taxes, \$43.58; John J. Hankenson, owner, \$3,905.42; John Cheetham, lessee, \$1.00; paid owner, November 9, 1908, \$3,944.47; lessee, \$1.01.

Lot 2, block 12; award, taxes, \$10.60; Mary Alden Root, \$1,969.40; paid October 27, 1908, \$1,999.80, including taxes paid by owner; warranty deed, Mary Alden Root, October 27, 1908; recorded, November 5, 1908; 653 deeds, 47.

Lot 3, block 12; award, taxes, \$46.90; Jennie Sylvester, mortgagee, \$1,780.97; Newton H. Winchell, owner, \$6,551.13; Minnesota Alpha of Sigma Alpha Epsilon Fraternity, lessee, \$1.00; paid mortgagee October 30, 1908, \$1,798.77; paid owner October 30, 1908, \$6,616.64; paid Fraternity November 5, 1908, \$1.01; warranty deed, Newton H. Winchell and wife, October 31, 1908; recorded, April 22, 1910; 674 deeds, 387.

Lot 8, block 12; award, taxes, \$30.82; Newton H. Winchell, \$6,349.18; paid October 30, 1908, \$6,412.67; warranty deed, Newton H. Winchell and wife, October 31, 1908; recorded, April 22, 1910; 674 deeds, 387.

Lot 9, block 12; award, taxes, \$23.44; Louis E. Schatz, mortgagee, \$1,558.25; Emery S. Reynolds, owner, \$4,697.31; Xi Chapter Phi Beta Pi Fraternity, lessee, \$1.00; paid mortgagee October 26, 1908, \$1,573.83; paid owner November 5, 1908, \$4,744.28; paid lessee November 5, 1908, \$1.01; warranty deed, Emery H. Reynolds and wife, October 30, 1908; recorded, April 22, 1910; 674 deeds, 388.

West 55 feet lots 1 and 2, block 13; award, taxes, \$5.47; John Holasek, \$1,369.53; respondent appealed, settled without trial; paid, \$1,555.73, of which \$1,383.22 was paid into court and \$172.51 to Holasek; warranty deed, John Holasek and wife, June 16, 1909; recorded, April 21, 1910; 674 deeds, 382.

Lot 3, block 13; award to Andrew Nelson, \$1,100.00; paid November 5, 1908, with interest, \$1,111.00; warranty deed, Andrew Nelson, November 2, 1908; recorded, November 10, 1908; 650 deeds, 511, etc.

Lot 8, block 13; award, taxes, \$6.39; Minneapolis Savings & Loan Association, mortgagee, \$444.15; Elva Whittier, owner, \$5,929.46; owner appealed, settled without trial; paid mortgagee January 20, 1909, \$415.75; paid owner January 20, 1909, \$6,091.85; warranty deed, January 20, 1909, Elva Whittier; recorded, April 21, 1910; 674 deeds, 382.

Lots 9 and 10, block 13; award, taxes, \$79.03; Michael Collins, owner, \$9,199.97; Bertha Alrick, lessee, \$1.00; paid, with interest, owner, October 24, 1908, \$9,291.96; lessee, November 5, 1908, \$1.01; warranty deed, Michael Collins and wife, October 24, 1908; recorded, April 22, 1910; 674 deeds, 388.

That part of lots 6 and 7, block 21, described as follows: beginning at a point in the north line of lot 6 distant 50 feet from the northeast corner thereof, thence south parallel to the east line of said lots 6 and 7, to a point 57 feet north from the south line of said lot 7, thence west parallel to the south line of said lot 7, 115 feet to the west line of said lot 7, thence north to the northwest corner of said lot 6, thence east to point of beginning; award, taxes, \$52.32; Mitchell D. Rhame, \$7,441.42; owner appealed, settled without trial; paid July 16, 1909, \$17,000.00, in payment for this and two following descriptions; warranty deed, Mitchell D. Rhame and wife, July 8, 1909; recorded, April 21, 1910; 673 deeds, 512; possession reserved, without rent, to April 1, 1910.

The east 50 feet of lots 6 and 7, block 21; award, taxes, \$0.80; Albert Eugene Rhame, owner, \$2,077.20; owner appealed, settled without trial (see last description); warranty deed, Albert Eugene Rhame and wife, July 14, 1909; recorded, April 21, 1910; 673 deeds, 515; possession reserved, without rent, to April 1, 1910.

That part of lot 7, block 21, described as follows: beginning at the southwest corner of said lot and running north along the west line of said lot 57 feet, thence east parallel to the south line of said lot 115 feet, thence south parallel to the west line of said lot 57 feet to the south line of said lot, thence west 115 feet to the point of beginning; award, taxes, \$41.51; Minnesota Loan & Trust Company, mortgagee, \$2,545.13; Walter S. Rhame, owner, \$3,768.01; owner appealed, settled without trial (see two preceding descriptions); warranty deed, Walter S. Rhame and wife, July 8, 1909; recorded, April 21, 1910; 673 deeds, 510; possession reserved, without rent, to April 1, 1910.

North 44 feet lot 8, block 21; award, taxes, \$28.49; Minnesota Loan & Trust Co., mortgagee, \$829.33; James Hill, owner, \$4,182.18; owner appealed, settled without trial; paid June 19, 1909, owner, \$4,540.00, out of which owner paid mortgage; warranty deed, James Hill and wife, June 11, 1909; recorded, April 21, 1910; 673 deeds, 514; buildings reserved.

South 22 feet lot 8 and north 22 feet lot 9, block 21; award, taxes, \$23.86; Sarah Phraner, mortgagee, \$503.36; Ione B. McAllister Tunstall, owner, \$3,311.81; William H. Hardin and Jessie Hardin, lessees, \$1.00; paid, with interest, mortgage, October 28, 1908, 508.36; owner, October 26, \$3,344.92; lessees, November 5, 1908, \$1.01; warranty deed, Ione B. McAllister Tunstall and husband, October 26, 1908; recorded, April 21, 1910; 673 deeds, 509.

West 27½ feet of east 55 feet of south 44 feet of lot 9, block 21; award, taxes, 70 cents; Gust Gustafson, \$149.30; owner appealed, settled without trial; paid into court November 9, 1908, \$150.79; warranty deed, Gust Gustafson and wife, August 10, 1909.

East 27½ feet of south 44 feet lot 9 and east 27½ feet lot 10, block 21; award, taxes, \$14.64; C. L. Elliott and Nettie Elliott, lessees, \$1.00; William H. Skinner and Elizabeth Skinner, lessees, \$1.00; John Gustafson, owner, \$2,708.36; paid, with interest, November 5, 1908, Elliotts, \$1.01; Skinners, \$1.01; owner, \$2,735.44; warranty deed, John Gustafson, November 2, 1908.

West 27½ feet of east 55 feet lot 10, block 21; award, taxes, \$11.63; Martha Gustafson et al., \$1,963.17; respondents appealed, settled without trial; paid Martha Gustafson, \$1,963.17, and interest, \$118.29; warranty deed, August 30, 1909, Martha Gustafson et al.; possession reserved, without rent, to April 1, 1910.

East 35 feet of west 110 feet lot 10, block 21; award, Charles A. Edgerton, \$608.60; Amanda Hogness, owner, \$2,641.40; paid, with interest, November 5, 1908, mortgagee, \$614.68; owner, \$2,667.81; warranty deed, November 2, 1908, Amanda Hogness and husband; recorded, April 21, 1910; 674 deeds, 381.

That part of lots 1 and 2, block 28, described as follows: beginning at southeast corner of said lot 1, thence west on the south line of said lot 48 feet 11 inches, thence north parallel to the east line of said lot 132 feet to the north line of said lot 2, thence east on north line of lot 2 to northeast corner of lot 2, thence south to point of beginning; award, taxes, \$39.65; D. W. Fagan, owner, \$6,210.35; owner appealed, settled without trial; paid September 29, 1909, \$6,000.00; buildings reserved.

Parts of lots 1 and 2, block 28, described as follows: commencing at a point in the south line of lot 1, 48 feet 11 inches west from the southeast corner of said lot; thence north parallel to the east line of said lot, 132 feet to the north line of said lot 2, thence west along the north line of said lot 2, 74 feet and 10 inches, thence south parallel to the east line of said lot 132 feet to the south line of lot 1, thence east to point of beginning; award, taxes, \$9.25; David S. Irwin, \$1,860.75; owner appealed, settled without trial; paid May 29, 1909, \$1,870.00; warranty deed, David S. Irwin and wife, May 19, 1909; recorded, April 21, 1910; 673 deeds, 511.

West ½ of west ½ lots 1 and 2, block 28; award, taxes, \$28.02; Sarah A. Irwin, owner, \$6,002.98; owner appealed, settled without trial; paid May 29, 1909, \$5,530.00; buildings reserved; warranty deed, May 19, 1909, Sarah A. Irwin and husband; recorded, April 21, 1910; 673 deeds, 516.

Lot 3, block 28; award, taxes, \$12.27; John D. Fagan, owner, \$2,037.73; lot 9, block 28, taxes \$11.63; John D. Fagan, \$1,888.37; lot 1, block 37, taxes \$48.20; John D. Fagan, \$8,191.80; lot 10, block 37, taxes \$12.74; John D. Fagan, \$2,467.26; owner appealed, settled without trial; paid May, 1909, \$14,170.00; buildings reserved; owner paid taxes; warranty deed, John D. Fagan, May 19, 1909; recorder, April 21, 1910; 673 deeds, 513.

Lots 6, 7 and 8, block 28; award, Oric O. Whited, \$19,800.00; lot 10, block 28, award Oric O. Whited, \$2,050.00; owner appealed, settled without trial; paid May, 1909, \$21,850.00; warranty deed, Oric O. Whited, May 10, 1909; recorded, April 22, 1910; 675 deeds, 218.

Lots 4 and 5, block 28; award, taxes, \$102.70; John Miller and wife, lessees, \$1.00; Ole Gjerde and wife, lessees, \$1.00; Lars Stoney and wife, lessees, \$1.00; Edward Maloney, owner, \$7,644.30; owner appealed; case tried, judgment entered, principal, interest and costs, \$8,683.54, which amount, with interest from date of entry of judgment, was tendered to owner and refused; paid into court for owner November 27, 1909, \$8,686.54; paid lessees, Gjerde, \$1.08; Stoney, \$1.08.

Lot 2, block 37; award, taxes, \$30.54; Bridget A. Burns et al., \$3,169.46; owners appealed, settled without trial; paid into court by stipulation, \$3,319.46; possession retained, without rent, to June 1, 1910.

Lot 3, block 37; award, taxes, \$15.41; Ezra Manore and wife, lessees, \$1.00; John Gustafson, owner, \$3,533.59; paid November 5, 1908, with interest: lessees, \$1.01; owner, \$3,568.92; warranty deed, John Gustafson, November 2, 1908; recorded, April 21, 1910; 674 deeds, 380.

Lot 9, block 37; award, Emma Paige, \$1,500.00; owner appealed, settled without trial; paid August, 1909, \$1,800.00; warranty deed, Emma Paige, August 19, 1909; recorded, April 21, 1910; 674 deeds, 380.

STATE OF MINNESOTA AND UNIVERSITY OF MINNESOTA,
against

GUSTAVE F. KRIESEL AND OTHERS.

Petition and lis pendens filed May 29, 1909; commissioners' report filed October 9, 1909; final decree, except as to Mary Loemans, October 6, 1910; certified copy recorded in the office of the register of deeds October 7, 1910; book 129 miscellaneous, 371, etc.; stipulation and order from final decree as to Mary Loemans filed and final decree entered October 29, 1910; certified copy recorded in the office of the register of deeds November 5, 1910, book 129 miscellaneous, 409.

Front 42 feet lot 1, block 20; award taxes, \$61.27; Gustave F. Kriesel, \$4,438.73; owner appealed, settled without trial; paid April 11, 1910, \$4,000.00; buildings reserved; warranty deed, Gustave F. Kriesel and wife, April 2, 1910; unrecorded.

West 41 feet of front 83 feet of lot 1, block 20; award, taxes, \$26.72; William Pearson, mortgagee, \$1,029.00; Annie Kruse and John F. Kruse, owners, \$3,444.28; owners appealed, settled without trial; paid mortgagee, \$1,003.99; paid owners December 31, 1909, \$3,471.00 and \$48.67; warranty deed, Annie Kruse and husband, December 31, 1909; recorded, December 31, 1909; 669 deeds, 258; option reserved to purchase buildings at \$700.00.

North $\frac{1}{2}$ lot 2, block 20, excepting rear 41 feet; award, taxes, \$23.07; Gustave H. Dorn, mortgagee, \$879.21; Conrad W. Pressler and Annie M. Pressler, owners, \$3,597.72; owners appealed, settled without trial; paid mortgagee December 6, 1909, \$870.74; paid owners March 23, 1910, \$3,132.26; buildings reserved; warranty deed, Conrad W. Pressler and wife, March 9, 1910; unrecorded.

Lot 3, block 20; award, taxes, \$55.01; W. C. Rotert, lessee, \$1.00; M. K. Sivertson, lessee, \$1.00; Elizabeth Curran, mortgagee, \$1,210.45; Alexander M. Loye, owner, \$7,232.54; owner appealed, settled without trial; paid mortgagee November 15, 1909, \$1,069.55; paid owner November 15, 1909, \$6,330.45; warranty deed, Alexander M. Loye and wife, November 15, 1909; recorded, November 15, 1909; 670 deeds, 127; buildings reserved.

North $\frac{1}{2}$ lot 8, block 20; award, taxes, \$30.96; owner, Gotthilf Raihle, \$4,869.04; paid November 6, 1909, \$4,200.00; warranty deed, Gotthilf Raihle and wife, October 27, 1909; recorded, November 6, 1909; 670 deeds, 68; buildings reserved.

South $\frac{1}{2}$ lot 8, block 20; award, taxes, \$27.90; Mary T. Elliott, as guardian of William T. Elliott, a minor, \$4,822.10; paid, \$4,200.00; warranty deed, Mary T. Elliott, as guardian, etc., November 11, 1909; recorded, November 11, 1909; 670 deeds, 96; buildings reserved.

Lot 9, block 20; award, taxes, \$33.96; C. D. Grasett, judgment creditor, \$1,500.27; New Hampshire Savings Bank, mortgagee, \$2,512.22; Margaret M. Devlin, owner, \$1,953.55; owner appealed, settled without trial; paid November 12, 1909; mortgagee, \$2,524.78, and exchange, \$3.28; April 19, 1910, owner, \$2,987.78; owner paid Grasett judgment; buildings reserved.

Lot 10, block 20; award, taxes, \$74.40; E. L. Lawrence, lessee, \$1.00; Nels C. Hansen, lessee, \$1.00; George P. Loye, owner, \$10,523.60; owner appealed, settled without trial; paid, \$9,953.00; warranty deed, George P. Loye, November 11, 1909; recorded, November 15, 1909; 670 deeds, 128; house, 409 Washington avenue, reserved.

That part of lot 1, block 21, described as follows: commencing at the southeast corner of said lot 1, at the junction of Church street and Washington avenue, thence westerly along said Washington avenue 70 feet, thence at right angles north, parallel to Church street 50 feet, thence at right angles east and parallel to Washington avenue 70 feet to Church street, thence south along Church street to point of beginning; award, taxes, \$35.21; Leon F. Loemans, \$2,614.79; paid into court, \$2,640.93, and later by clerk to said Loemans; warranty deed, Leon F. Loemans, December 18, 1909; unrecorded.

All that part of lots 1 and 2 in block 21, described as follows: commencing on the south line of said block 21 on Washington avenue 70 feet westerly of the southeast corner, thence westerly along Washington avenue 40 feet, thence at right angles north and parallel to Church street 92 feet, thence at right angles easterly and parallel to Washington avenue 110 feet to Church street, thence south along Church street 42 feet, thence at right angles westerly and on a line parallel to Washington avenue 70 feet, thence at right angles southerly 50 feet to point of beginning; award, taxes, \$44.08; Mary Loemans, \$3,155.92; owner appealed, settled without trial; paid October 29, 1910, \$4,500.00, and bill of sale of houses, 327 Washington avenue and 317 Church street; warranty deed, Mary Loemans, October 11, 1910; unrecorded; buildings reserved.

Lot 1 and south 41 feet lot 2, block 29; award, taxes, \$392.79; lessees, John Doris, \$1.00; William C. Newgord, \$1.00; Edward R. Cooke, \$1.00; F. E. Peterson, \$1.00; Truels Madsen, owner, \$24,603.21; owner appealed, settled without trial; paid Newgord June 20, 1910, \$1.06; paid Cooke June 9, 1910, \$1.06; paid Peterson August 22, 1910, \$1.06; paid owner May 27, 1910, \$27,000.00; warranty deed, Truels Madsen and wife, May 27, 1910; unrecorded.

North 22 feet lot 2, south 59 feet lot 3 and rear or easterly 40 feet of north half lot 8, block 29; award, taxes, \$86.33; Annie L. Merriam, mortgagee, \$6,007.34; Sarah J. Adair, owner in fee, \$3,006.67; Minnesota Delta Upsilon Club, equitable owner, \$2,899.66; paid mortgagee September 26, 1910, \$6,180.00; paid December 7, 1909, Adair, \$3,036.74; Minnesota Delta Upsilon Club, \$2,928.66 and \$86.33 taxes paid by owner; warranty deed, Sarah J. Adair, December 7, 1909; recorded, December 10, 1909; 668 deeds, 216; quit-claim deed, Minnesota Delta Upsilon Club, December 7, 1909; recorded, December 9, 1909; 671 deeds, 135, etc.

North 7 feet lot 3 and south half lot 4, block 29; award, taxes, \$24.53; Norwood F. Way, \$5,975.47; petitioners appealed, settled without trial; paid February 5, 1910, \$5,700.00; warranty deed, Norwood F. Way and wife, January 20, 1910; unrecorded.

Lot 5, excepting west 40 feet thereof, and north half lot 4, except the west 40 feet thereof; award, taxes, \$40.70; Catherine F. Irwin, \$5,959.30; owner appealed, settled without trial; paid June 15, 1910, \$8,000.00; warranty deed, Catherine F. Irwin and husband, June 15, 1910; unrecorded.

West 40 feet lot 5 and west 40 feet of north half lot 4, block 29; award, taxes, \$38.56; William A. Wittick, mortgagee, \$2,038.66; Mary A. Kyle, owner, \$3,122.78; owner paid taxes, \$38.56; owner appealed, settled without trial; paid mortgagee, \$2,048.85; paid owner May 31, 1910, \$3,261.34; warranty deed, Mary A. Kyle and husband, May 25, 1910; unrecorded; right reserved to occupy free of rent to September 1, 1910; Wittick was paid \$10.32 additional interest on this and next mortgage.

East 40 feet lots 6 and 7, block 29; award, taxes, \$30.89; Mary E. Pratt, lessee, \$1.00; William A. Wittick, mortgagee, \$1,811.10; Richard Kyle, owner, \$2,557.01; owner paid taxes, \$30.89; owner appealed, settled without trial; paid mortgagee November 11, 1909, \$1,820.16; paid owner May 31, 1910, \$2,687.90; warranty deed, Mary Kyle and husband, May 25, 1910; unrecorded; right reserved to occupy free of rent to September 1, 1910.

East 45 feet of west 125 feet lot 6 and east 45 feet of west 125 feet of northerly 57 feet lot 7, block 29; award, taxes, \$36.38; W. R. Will, lessee, \$1.00; James Everington, owner, \$4,612.62; paid lessee December 7, 1909, \$1.01; paid owner November 15, 1909, \$4,676.90, including taxes paid by him; warranty deed, James Everington and wife, November 6, 1909; recorded, November 15, 1909; 670 deeds, 126.

West 80 feet lot 6 and west 80 feet of north 9 feet lot 7, block 29; award, taxes, \$53.78; James Everington, owner in fee, \$6,764.56; Gamma Tau Chapter of Sigma Nu, equitable owner, \$2,056.66; Sigma Nu appealed, settled without trial; paid Everington December 31, 1909, \$6,849.12; paid Gamma Tau Chapter Sigma Nu February 4, 1910, \$2,158.85; warranty deed, James Everington and wife, December 31, 1909; recorded, December 31, 1909; 671 deeds, 194; quit-claim deed, Gamma Tau Chapter of Sigma Nu, January 21, 1910; unrecorded; lease to Sigma Nu three years at \$40.00 per month as part of settlement.

South 48 feet of northerly 57 feet of westerly or front 80 feet lot 7, block 29; award, John C. Brown, lessee, \$1.00; Annie A. Ryan, owner, \$7,599.00; owner appealed, settled without trial; paid February 11, 1910, \$8,200.00; warranty deed, Annie Ryan, January 20, 1910; unrecorded.

South 9 feet lot 7, except rear or east 40 feet thereof, and north 33 feet lot 8, except rear or east 40 feet thereof, block 29; award, taxes, \$31.25; Mike Zustiak and Mary Zustiak, mortgagees, \$3,120.38; owner paid taxes, \$31.25; Frank J. Pesek and Marie E. Pesek, owners, \$1,648.39; owners appealed, settled without trial; paid owners May 25, 1910, \$5,100.00, out of which they paid mortgage; warranty deed, Frank J. Pesek and wife, May 25, 1910; unrecorded.

South half lot 8, excepting rear 50 feet thereof, and north 7 feet lot 9, except rear or easterly 50 feet thereof, block 29; award, taxes, \$30.83; Ida Stiles, lessee, \$1.00; Margaret D. McCord, owner, \$4,368.17; owner paid taxes, \$30.83; owner appealed, settled without trial; paid May 7, 1910, \$4,900.00; warranty deed, Margaret D. McCord, May 4, 1910; unrecorded.

Easterly 50 feet of south half lot 8 and east 50 feet of north 17 feet lot 9, block 29; award, taxes, \$1.45; Anthony Zeleny, \$436.05; paid December 27, 1909, \$440.13; warranty deed, Anthony Zeleny and wife, conveying property and also right of way over west 10 feet of east 50 feet lots 9 and 10, block 29, dated December 27, 1909; recorded, December 29, 1909; 670 deeds, 354.

East 50 feet lot 10 and east 50 feet of southerly 49 feet lot 9, block 29; award, taxes, \$28.87; John Donaldson, lessee, \$1.00; Anthony Zeleny (right of way), \$97.07; James McDonald (right of way), \$97.07; Frederick Brinkman, owner, \$5,070.13; owner paid taxes, \$28.87; paid owner November 17, 1909, \$5,124.50; warranty deed, Frederick Brinkman and wife, November 6, 1909; recorded, November 23, 1909; 663 deeds, 508, etc.

South 40 feet of northerly 47 feet lot 9, block 29, except easterly 50 feet thereof; award, taxes, \$31.76; Anthony Zeleny and Mattie Day Zeleny, owners, \$5,668.24; owners paid taxes, \$31.76; owners appealed, settled without trial; paid December 27, 1909, \$5,841.85, including award for right of way over Brinkman tract; warranty deed, Anthony Zeleny and wife, deeding above property and also right of way over west 10 feet of east 50 feet lots 9 and 10, block 29, dated December 27, 1909; recorded, December 29, 1909; 670 deeds, 355; reserving right to occupy free of rent 18 months from October 9, 1909.

South 19 feet lot 9, except east 50 feet thereof, and north 21 feet lot 10, except east 50 feet thereof, block 29; award, taxes, \$28.68; James McDonald, \$4,571.32; owner paid taxes, \$28.68; owner appealed, settled without trial; paid March 4, 1910, \$4,800.00, including award for right of way on Brinkman tract; warranty deed, James McDonald and wife, deeding above property and also right of way over west 10 feet of east 50 feet lot 10 and west 10 feet of east 50 feet of south 49 feet lot 9, block 29, dated February 10, 1910; unrecorded.

All that part of lot 10, block 29, lying west of a line drawn parallel to and distant 45 feet west from the east line thereof and lying south of a line drawn parallel to and distant 21 feet south of the north line of said lot; award, taxes, \$36.27; L. C. Smith, lessee, \$1.00; Jessie D. Dickson, owner, \$6,162.73; owner paid taxes, \$36.27; paid lessee December 3, 1909, \$1.00; paid owner November 26, 1909, \$6,243.59; warranty deed, Jessie D. Dickson and husband, November 26, 1909; recorded, November 29, 1909; 671 deeds, 107.

South $\frac{1}{2}$ of north $\frac{2}{3}$ lots 1 and 2, block 36; award, taxes, \$21.62; W. A. Fennell, lessee, \$1.00; James Everington, owner, \$4,377.38; owner paid taxes, \$21.62; paid owner, \$4,419.80; warranty deed, James Everington and wife, October 28, 1909; recorded, November 6, 1909; 671 deeds, 50, etc.

North $\frac{1}{2}$ lots 1 and 2, block 36; award, taxes, \$36.02; Susanna A. Everington, \$8,463.98; owner paid taxes, \$36.02; paid owner, \$7,000.00; warranty deed, Susanna Everington and husband, October 28, 1909; recorded, November 6, 1909; 671 deeds, 49; buildings reserved.

Lot 6, block 36; award, taxes, \$43.71; Penn Mutual Life Insurance Company, mortgagee, \$3,090.29; E. A. Benjamin, mortgagee, \$1,015.34; Grace Gray Choate, owner, \$6,250.66; owner appealed, settled without trial; paid mortgagees November 6, 1909; Insurance Company, \$3,103.70; Benjamin, \$1,020.00; paid owner February 19, 1910, \$6,031.91; warranty deed, Grace Gray Choate and husband, February 10, 1910; unrecorded; buildings reserved.

East 41 feet lot 8, block 26; award, Lora A. Cheney, \$1,700.00; paid on compromise and settlement, \$1,947.00; warranty deed, Lora A. Cheney and husband, September 1, 1909; recorded, November 6, 1909; 671 deeds, 51 etc.

Lot 1 and east 34 feet lot 2, block 44; award, taxes, \$17.55; Timothy Flynn, mortgagee, \$337.44; Annie Flannigan, owner, \$4,645.01; owner paid taxes, \$17.55; owner appealed, settled without trial; paid owner March 18, 1910, \$5,162.56; paid mortgagee (see parcel following; warranty deed, March 18, 1910, unrecorded.

Lots 2, 3, 4 and 5, block 44, excepting the easterly 34 feet of lot 2 in said block 44, and also excepting that part of lots 3, 4 and 5 heretofore conveyed to the City of Minneapolis, to-wit: beginning at a point in the west line of said lot 5, being the easterly boundary line of Church street, 50 feet north from the southwest corner of said lot 5 and running thence south to said southwest corner, thence east along the south line of said lot 140 feet, thence running in a direct line northwesterly 148 32-100 feet to point of beginning; award, taxes, \$24.08; Timothy Flynn, mortgagee, \$404.94; Malacky Lenihan, mortgagee, \$1,129.70; Felix Trainor and Dennis Trainor, owners, \$4,441.28; owners paid taxes, \$24.08; owners appealed, settled without trial; paid Timothy Flynn December 7, 1909, \$740.70 (this included mortgage on Flannigan parcel); paid Malacky Lenihan December 4, 1909, \$1,140.98; paid owners March 9, 1910, \$4,675.48; warranty deed, Felix Trainor and wife, January 28, 1910; unrecorded.

Same of the lessees to whom awards of \$1.00 each were made vacated the premises and disappeared. This accounts for the non-payment of a few such awards.

Respectfully submitted,

C. J. ROCKWOOD.

UNIVERSITY OF MINNESOTA.

Minneapolis, Minn.

December 6th, 1910.

Honorable John Lind, President Board of Regents.

Sir: I herewith submit the financial report of the University of Minnesota Campus Extension Funds for the period beginning July 10, 1907, and ending December 6, 1910.

JOSEPH D. BREN,
Treasurer.

FINANCIAL STATEMENT, SHOWING RECEIPTS, DISBURSEMENTS
AND BALANCES IN CAMPUS EXTENSION FUNDS AS FOLLOWS:

- First—University Campus Extension.
- Second—Elliott Hospital Site.
- Third—Taxes, University Campus and New Engineering Building.
- Fourth—Rents University Campus Buildings.

RECEIPTS.

FROM SALE OF BOARD OF REGENTS CERTIFICATES OF INDEBTEDNESS
AS FOLLOWS:

Certificate No.	Rate.	In-terest.	Total Interest.	
1. Dated July 10, 1907; 4½ %; Due July 10, 1908.	2 coupons@	\$225.00	\$450.00	\$10,000.00
2. Dated July 10, 1907; 4½ %; Due July 10, 1908.	2 coupons@	337.50	675.00	15,000.00
3. Dated July 10, 1907; 4½ %; Due July 10, 1909.	4 coupons@	225.00	900.00	10,000.00
4. Dated July 10, 1907; 4½ %; Due July 10, 1909.	4 coupons@	337.50	1,350.00	15,000.00
5. Dated July 10, 1907; 4½ %; Due July 10, 1910.	6 coupons@	225.00	1,350.00	10,000.00
6. Dated July 10, 1907; 4½ %; Due July 10, 1910.	6 coupons@	337.50	2,025.00	15,000.00
7. Dated July 10, 1907; 4½ %; Due July 10, 1911.	8 coupons@	225.00	1,800.00	10,000.00
8. Dated July 10, 1907; 4½ %; Due July 10, 1911.	8 coupons@	337.50	2,700.00	15,000.00
9. Dated Sept. 19, 1907; 4½ %; Due Sept. 19, 1909.	4 coupons@	1,125.00	4,500.00	50,000.00
10. Dated Dec. 1, 1907; 4½ %; Due Aug. 1, 1909;	1 coupon @ and 2 coupons@	150.00 112.50	150.00 } 225.00 }	5,000.00
11. Dated Dec. 1, 1907; 4½ %; Due Aug. 1, 1909;	1 coupon @ and 2 coupons@	150.00 112.50	150.00 } 225.00 }	5,000.00
12. Dated Dec. 1, 1907; 4½ %; Due Aug. 1, 1909;	1 coupon @ and 2 coupons@	150.00 112.50	150.00 } 225.00 }	5,000.00

Certificate No.		Rate.	In-terest.	Total Interest.	
48.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1910; and 4 coupons@ 112.50		450.00 }	5,000.00	
49.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1910; and 4 coupons@ 112.50		450.00 }	5,000.00	
50.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
51.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
52.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
53.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
54.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
55.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
56.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
57.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
58.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
59.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
60.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
61.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
62.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
63.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
64.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
65.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
66.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
67.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
68.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
69.	Dated Dec. 1, 1907; 4½ %;	1 coupon @ 150.00	150.00 }		
	Due Aug. 1, 1911; and 6 coupons@ 112.50		675.00 }	5,000.00	
70.	Dated June 19, 1909; 4½ %;	1 coupon @ 116.67	116.67 }		
	Due Aug. 1, 1912; and 6 coupons@ 500.00		3,000.00 }	25,000.00	
71.	Dated June 19, 1909; 4 %;	1 coupon @ 116.67	116.67 }		
	Due Aug. 1, 1912; and 6 coupons@ 500.00		3,000.00 }	25,000.00	
72.	Dated June 19, 1909; 4 %;	1 coupon @ 116.67	116.67 }		
	Due Aug. 1, 1913; and 8 coupons@ 500.00		4,000.00 }	25,000.00	
73.	Dated June 19, 1909; 4 %;	1 coupon @ 116.67	116.67 }		
	Due Aug. 1, 1913; and 8 coupons@ 500.00		4,000.00 }	25,000.00	
76.	Dated June 19, 1909; 4 %;	1 coupon @ 116.67	116.67 }		
	Due Aug. 1, 1913; and 6 coupons@ 500.00		3,000.00 }	25,000.00	
77.	Dated June 19, 1909; 4 %;	1 coupon @ 116.67	116.67 }		
	Due Aug. 1, 1913; and 6 coupons@ 500.00		3,000.00 }	25,000.00	
78.	Dated June 19, 1909; 4 %;	1 coupon @ 116.67	116.67 }		
	Due Aug. 1, 1913; and 8 coupons@ 500.00		4,000.00 }	25,000.00	
79.	Dated June 19, 1909; 4 %;	1 coupon @ 116.67	116.67 }		
	Due Aug. 1, 1913; and 8 coupons@ 500.00		4,000.00 }	25,000.00	
Total				\$80,683.36	\$650,000.00

Interest returned on certificates sold to Minnesota Loan & Trust Company, Minneapolis, Nos. 1 to 8 inclusive—

\$100,000—3 days at 4½ %..... \$37.50

Interest returned on certificates sold to Minnesota Loan & Trust Company, Minneapolis, Nos. 1 to 69 inclusive—

\$300,000—12 days at 4½ %..... 450.00

Interest returned on certificates sold to Northwestern National Bank, Minneapolis, Nos. 70, 71, 76, 77—\$100,000—1 month at 4%.....	333.33
Interest returned on certificates sold to First National Bank, Minneapolis, Nos. 72, 73, 78, 79—\$100,000—1 month at 4%	333.33
Total interest returned	\$1,154.16

FROM SALE OF HOUSES.

Elizabeth Shea, house No. 300 State St. SE.....	\$1,000.00
Gustaf W. Noble, house No. 428 Union St. SE.....	1,200.00
E. J. Eklund, house No. 212 Washington Ave. SE.....	.25.00
F. W. Pratt, house No. 416 Delaware St. SE.....	400.00
Frank Krager, house No. 417 Washington Ave. SE.....	611.00
Frank Krager, house No. 210 Church St. SE.....	99.00
A. Nelson, house No. 210 Church St. SE.....	655.00
Erland Lind, house No. 221 State St. SE.....	735.00
Fagan Bros., house No. 217 State St. SE.....	550.00
Fagan Bros., house No. 413 Church St. SE.....	300.00
Fagan Bros., house No. 413 Church St. SE.....	700.00
Frank Percival, house No. 309 Washington Ave. SE.....	308.00
M. Johnson, house No. 315 Beacon St. SE.....	611.00
Annie O. Kruse, house No. 423 Washington Ave. SE.....	700.00
D. G. Wright, house No. 413 Essex St. SE.....	350.00
Peter John Swanson, house No. 408 Union St. SE.....	400.00
Mary Bowen, house No. 327 Beacon St. SE.....	200.00
R. Kyle, house No. 412-416 Washington Ave. S.....	1,700.00
Frank Pesek, house No. 413 Church St. SE.....	200.00
O. A. Olson, house No. 400 Washington Ave. SE.....	900.00
O. A. Olson, house No. 310 Church St. SE.....	95.00
A. J. Studricka, house No. 307-9 Church St. SE.....	3,556.00
E. D. Turnacliiff, house No. 314 Washington Ave. SE.....	1,750.00
David S. Irwin, houses Nos. 408 Washington Ave. SE. and 312 Union St. SE.....	1,800.00
Total	\$18,845.00

The following are refunds of amounts drawn and not used in the purchase of property. See list of refunds at end of statement of disbursements.

Leon F. Loeman, voucher No. ..., 1908 taxes.....	\$22.32
W. A. Fennell, voucher No. 2567.....	1.00
A. N. Parker, voucher No. 2745.....	5,000.00
Annie and John F. Kruse, voucher No. 2847.....	3,518.50
Grace Gray Choate, voucher No. 2862.....	6,329.99
Alexander Loye, owner, voucher No. 2853.....	\$7,323.98
Alexander Loye, accepted.....	6,330.45
	993.53
Felix and Dennis Trainor, voucher No. 2867.....	4,463.49
Elizabeth Curran, mortgagee, voucher No. 2852.....	\$1,216.50
Elizabeth Curran, accepted.....	1,069.55
	146.95
Leon F. Loeman, voucher No. 2860.....	3,216.00
Magaret Devlin, voucher No. 2856.....	1,963.32
Annie Flannigan, voucher No. 2864.....	4,668.24
Gustave F. Kreisel, voucher No. 2845.....	4,522.50
Geo. P. Loye, voucher No. 2859.....	\$10,646.97
Geo. P. Loye, accepted.....	9,953.00
	693.97
Gustave H. Dorn, voucher No. 2899.....	3,638.89
Alexander M. Loye, voucher No. 2850.....	1.01
Alexander M. Loye, voucher No. 2851.....	1.01
James D. Shearer, voucher No. 2854.....	1,507.50
E. L. Lawrence, voucher No. 2857.....	1.01
Nels C. Hanson, voucher No. 2858.....	1.01
Taxes, 1908, voucher No. 2868, lot 9, block 20.....	37.36
Taxes, 1908, voucher No. 2870, lots 1 and 2, block 44.....	19.31
Taxes, 1908, voucher No. 2871, lots 2, 3, 4 and 5, block 44..	28.26
Taxes 1908, voucher No. 2874, lot 10, block 29.....	40.00
Ole Elwell, voucher No. 9551.....	1.07
P. Anderson, voucher No. 5515.....	1.00
Mrs. G. Gunderson, voucher No. 5514.....	1.00
Taxes, 1907, voucher No. 8266, lots 1 and 2, block 13.....	5.47
Taxes, 1907, voucher No. 8428, lot 1, block 12.....	22.39
Taxes, 1907, voucher No. 8263, lot 9, block 12.....	23.44
Taxes, 1907, voucher No. 8261, lot 8, block 12.....	30.82
Taxes, 1907, voucher No. 8250, lot 3, block 12.....	17.38
Taxes, 1907, voucher No. 8257, lot 3, block 12.....	46.90
Taxes, 1908, voucher No. 8252, lot 1, block 12.....	43.58
Taxes, 1907, voucher No. 8283, lot 3, block 37.....	15.41

Taxes, 1907, voucher No. 8431, lot 9, block 21.....	.70	
Taxes, 1907, voucher No. 8277, lot 10, block 21.....	14.64	
Taxes, 1907, voucher No. 8273, lot 9, block 21.....	23.86	
Taxes, 1907, voucher No. 8270, lots 9 and 10, block 13.....	79.03	
G. H. Dorn, voucher No. 2848.....	12.87	
Total refunds		41,154.73
Frank A. Watts and wife:		
Judgment, March 23, 1910.....	\$520.61	
Increased costs .....	.50	
Interest ..	9.95	
		531.06
Total receipts		\$711,684.95

Receipts from tax levy under the provision of Minnesota Law, 1907,
Chapter 359 and Minnesota Law 1909, Chapter 480.

Collections, March 1908	\$27,495.34	
Collections, April, 1908	9,005.92	
Collections, May, 1908	None	
Collections, June, 1908	47,055.02	
Collections, July, 1908	30,964.20	
Collections, August, 1908	14,399.30	
Collections, September, 1908	8,129.16	
Collections, October, 1908	None	
Collections, November, 1908	32,348.78	
Collections, December, 1908	22,405.90	
Collections, January, 1909	5,607.30	
Collections, February, 1909	3.40	
Collections, March, 1909	24,757.12	
Collections, April, 1909	8,916.02	
Collections, May, 1909	None	
Collections, June, 1909	41,083.53	
Collections, July, 1909	22,680.04	
Collections, August, 1909	11,934.92	
Collections, September, 1909	5,304.69	
Collections, October, 1909	None	
Collections, November, 1909	21,214.16	
Collections, December, 1909	23,264.74	
Collections, January, 1910	3,102.50	
Collections, February, 1910	208.62	
Collections, March, 1910	25,952.36	
Collections, April, 1910	13,170.62	
Collections, May, 1910	18.81	
Collections, June, 1910	35,410.90	
Collections, July, 1910	29,811.30	
Collections, August, 1910	23,696.11	
Collections, September, 1910	5,267.93	
Collections, October, 1910	None	
Collections, November, 1910	23,509.00	
Total to November 30, 1910, inclusive.....		516,717.69
Grand total receipts		\$1,228,402.64

DISBURSEMENTS.

Thomas W. Pierce, August 15, 1907, purchase of lots 2 and 9, block 10, of St. Anthony City.....		\$2,400.00
William H. Doty, August 15, 1907, purchase of house on lots 2 and 9, block 10, of St. Anthony City.....		800.00
Margaret Cullen, August 15, 1908, purchase of lot 1, block 10, of St. Anthony City.....	\$7,000.00	
Interest, 6 5-6 months, at 6%.....	239.16	
		7,239.16
John Cullen, February 25, 1908, purchase of 1-7 of lot 8, block 10, of St. Anthony City.....	\$285.72	
Interest, $\frac{1}{2}$ of 1%.....	1.43	
		287.15
Margaret Cullen, February 25, 1908, purchase of 2-7 of lot 8, block 10, of St. Anthony City.....	\$571.42	
Interest, $\frac{1}{2}$ of 1%.....	2.85	
		574.27
Elizabeth Cullen, February 25, 1908, purchase of 1-7 of lot 8, block 10, of St. Anthony City.....	\$285.72	
Interest, $\frac{1}{2}$ of 1%.....	1.43	
		287.15

John Cullen, guardian of Frank Berry, February 25, 1908, purchase of 1-14 of lot 8, block 10, of St. Anthony City	\$142.86	
Interest, $\frac{1}{2}$ of 1%.....	.72	143.58
John Cullen, as gurdian of Herbert Cullen Berry, Feb- ruary 25, 1910, purchase of 1-14 of lot 8, block 10, of St. Anthony City	\$142.86	
Interest, $\frac{1}{2}$ of 1%.....	.72	143.58
Jennie Estabrook, February 25, 1908, purchase of 2-7 of lot 8, block 10, of St. Anthony City.....	\$571.42	
Interest, $\frac{1}{2}$ of 1%	2.85	574.27
Jennie Estabrook, February 25, 1908, purchase of lot 3, block 10, of St. Anthony City.....	\$285.72	
Interest, $\frac{1}{2}$ of 1%.....	10.00	2,010.00
William Kirchner, February 8, 1909, tenant of the Margaret Cullen property	\$1.00	
Interest, 14 months@6%.....	.07	1.07
Acacia Club "U. of M.", February 6, 1909, tenant of the Margaret Cullen property	\$1.00	
Interest, 14 months@6%.....	.07	1.07
J. V. Martenis, February 8, 1909, tenant of the Margaret Cullen property	\$1.00	
Interest, 14 months@6%.....	.07	1.07
S. T. Olson, February 8, 1908, tenant of the Margaret Cullen property	\$1.00	
Interest, 14 months@6%.....	.07	1.07
J. B. Johnston, February 8, 1909, tenant of the Margaret Cullen property	\$1.00	
Interest, 14 months@6%.....	.07	1.07
Elizabeth Cullen, March 4, 1908, purchase of lot 10, block 10, of St. Anthony City.....	\$2,500.00	
Interest, $1\frac{1}{2}$ months@6%.....	18.75	2,518.75
Clara Gilmore, interest on lot 1, south $\frac{1}{2}$ of lot 2, block 11, of St. Anthony City, for $1\frac{1}{2}$ months@6%.....		86.25
Elisa S. Smith, August 27, 1907, purchase of front or west half of lots 9 and 10, block 11, of St. Anthony City...		6,000.00
I. W. Switzer and Pora Switzer, February 13, 1908, pur- chase of lot 8, block 11, of St. Anthony City, free of incumbrances, except taxes for 1907.....		5,700.00
E. Eidsvold, February 25, 1908, purchase of east $\frac{1}{4}$ of lots 9 and 10, block 11, of St. Anthony City.....	\$2,556.34	
Interest, $\frac{1}{2}$ of 1%.....	12.78	2,569.12
Jacob Stoff and Hans Simonson, February 25, 1908, pur- chase of east $\frac{1}{4}$ of lots 9 and 10, block 11, of St. An- thony City	\$2,043.66	
Interest, $\frac{1}{2}$ of 1%.....	10.22	2,053.88
Jacob Stoff and Hans Simonson, February 25, 1908, pur- chase of west $\frac{1}{2}$ of east $\frac{1}{2}$ of lots 9 and 10, block 11, of St. Anthony City	\$4,800.00	
Interest, $\frac{1}{2}$ of 1%.....	24.00	4,824.00
The Phi Rho Sigma Fraternity, February 25, 1908, west $\frac{1}{2}$ of the east $\frac{1}{2}$ of lots 9 and 10, block 11, of St. Anthony City (tenants).....		1.00
Mary V. Jackson, March 24, 1908, purchase of lot 3 and the north $\frac{1}{2}$ of lot 2, block 11, of St. Anthony City....	\$2,782.62	
Interest, 6% for two months.....	27.83	2,810.45
R. A. Ogaard, purchase of mortgage on lot 3 and the north $\frac{1}{2}$ of lot 2, block 11, of St. Anthony City.....	\$1,544.25	
Interest, 5 months@6%.....	38.60	1,582.85

N. H. Winchell, June 20, 1908, purchase of lot 3 and the north ½ of lot 2, block 11, of St. Anthony City.....	\$5,134.42	
Interest, 5 months@6%.....	128.35	
Taxes paid by him.....	69.36	
Costs and disbursements.....	56.75	
	<hr/>	5,388.88
Mary E. Pratt, June 20, 1908, purchase of lot 3 and the north ½ of lot 2, block 11, of St. Anthony City (tenant)	\$1.00	
Interest, 5 months@6%.....	.03	
	<hr/>	1.03
R. D. and W. D. Kavanaugh, June 20, 1908, tenant of lot 3 and north ½ of lot 2, block 11, of St. Anthony City.	\$1.00	
Interest, 5 months@6%.....	.03	
	<hr/>	1.03
Clara Gilmore, June 8, 1908, purchase of lot 1 and the south ½ of lot 2, block 11, of St. Anthony City.....		11,500.00
Martha R. Pattee, August 16, 1907, purchase of the west ½ of lot 10, block 12, of St. Anthony City.....		4,800.00
Martin E. Tanberg, September 10, 1908, purchase of the west 45 feet of the east 90 feet of lot 1, block 12, of St. Anthony City	\$3,542.62	
Interest, 2 months@6%.....	35.42	
	<hr/>	3,578.04
John J. Hakenson, November 10, 1908, purchase of west 75 feet of lot 1, block 12, of St. Anthony City.....	\$3,905.40	
Interest, 2 months@6%.....	39.05	
	<hr/>	3,944.47
John Cheetham, September 10, 1908, tenant of west 75 feet of lot 1, block 12, of St. Anthony City.....	\$1.00	
Interest, 2 months@6%.....	.01	
	<hr/>	1.01
Mary Alden Root, September 10, 1908, purchase of lot 2, block 12, St. Anthony City.....	\$1,969.40	
Taxes on above for year 1907.....	10.60	
Interest, 2 months@6%.....	19.80	
	<hr/>	1,999.80
Jennie Sylvester, September 10, 1908, purchase of lot 3, block 12, of St. Anthony City.....	\$1,780.97	
Interest, 2 months@6%.....	17.80	
	<hr/>	1,798.77
Newton H. Winchell, November 10, 1908, purchase of lot 3, block 12, of St. Anthony City.....	\$6,551.13	
Interest, 2 months@6%.....	65.51	
	<hr/>	6,616.64
Minnesota Alpha of Sigma Alpha Epsilon Fraternity, September 10, 1908, tenant of lot 3, block 12, of St. Anthony City	\$1.00	
Interest, 2 months@6%.....	.01	
	<hr/>	1.01
Newton H. Winchell, September 10, 1908, purchase of lot 8, block 12, of St. Anthony City.....	\$6,439.18	
Interest, 2 months@6%.....	63.49	
	<hr/>	6,412.67
Emery H. Reynolds, September 10, 1908, purchase of lot 9, block 12, of St. Anthony City.....	\$4,697.31	
Interest, 2 months@6%.....	46.97	
	<hr/>	4,744.28
Louis E. Schatz, September 10, 1908, mortgage on lot 9, block 12, of St. Anthony City.....	\$1,558.25	
Interest, 2 months@6%.....	15.58	
	<hr/>	1,573.83
Chapter Phi Beta Pi Fraternity, September 10, 1908, tenant of lot 9, block 12, of St. Anthony City.....	\$1.00	
Interest, 2 months@6%.....	.01	
	<hr/>	1.01
Mary Bowen, November 6, 1908, purchase of east 45 feet of lot 1, block 12, of St. Anthony City.....	\$4,167.61	
Interest, 2 months@6%.....	41.68	
	<hr/>	4,209.29
Mrs Annie Ryan, July 9, 1908, purchase of the east ½ of lot 10, block 12, and the west 110 feet of the south 44 feet of lot 9, block 21, of St. Anthony City.....		9,300.00
Mr. and Mrs. Frank A. Watts, August 27, 1908, purchase of east 55 feet of lots 1 and 2, block 13, of St. Anthony City		4,950.00

John Holasek, September 10, 1908, purchase of the west 55 feet of lots 1 and 2, block 13, of St. Anthony City....	\$1,369.53	
Interest, 2 months@6%.....	13.69	
		1,383.22
Andrew Nelson, September 10, 1908, purchase of lot 3, block 13, of St. Anthony City.....	\$1,100.00	
Interest, 2 months@6%.....	11.00	
		1,111.00
Michael Collins, September 10, 1908, purchase of lots 9 and 10, block 13, of St. Anthony City.....	\$9,199.97	
Interest, 2 months@6%.....	91.99	
		9,291.96
Bertha Alrick, September 10, 1908, tenant of lots 9 and 10, block 13, of St. Anthony City.....	\$1.00	
Interest, 2 months@6%.....	.01	
		1.01
Mrs. Elva Whittier, January 9, 1909, purchase of lot 8, block 13, of St. Anthony City.....	\$6,380.00	
Interest, 4 months@6%.....	127.60	
		6,507.60
John Holasek, June 4, 1909, to complete settlement of purchase of the west 55 feet of lots 1 and 2, block 13, of St. Anthony City, which was appealed.....		172.51
Swan Nelson and Betty Nelson, December 26th, 1907, purchase of west 55 of the east 110 feet of lots 1 and 2, block 13, of St. Anthony City.....		11,425.00
Frank M. Durgan, Septembpr 6, 1907, purchase of south $\frac{1}{2}$ and the rear 41 feet of the north $\frac{1}{2}$ of lot 2, block 20, of St. Anthony City.....		2,500.00
Israel W. Cone, June 21, 1909, purchase of lot 6, block 20, of St. Anthony City		4,750.00
Henry L. Moeller, July 8, 1909, purchase of lot 4, block 20, of St. Anthony City		5,150.00
Rev. Frederick Brinkman, July 15, 1909, purchase of the west 41 feet of lot 1, block 20, of St. Anthony City...		4,000.00
Malin Johnson, July 31, 1909, purchase of the east 41 feet of the west 82 feet of lot 1, block 20, of St. Anthony City		4,400.00
Harwood Manufacturing Co., July 31, 1909, purchase of lot 7, block 20, of St. Anthony City.....		4,250.00
Geo. A. Nichols, agent, August 10, 1909, purchase of lot 5, block 20, of St. Anthony City.....		4,750.00
Margaret M. Devlin, March 31, 1910, purchase of lot 9, block 20, of St. Anthony City.....		2,987.78
Gustave F. Kriesel, March 28, 1910, purchase of the front 42 feet of lot 1, block 20, of St. Anthony City.....		4,000.00
Corrad W. Pressler and Annie M. Pressler, March 10, 1910, purchase of the north $\frac{1}{2}$ of lot 2, block 20, of St. Anthony City		3,132.26
Gustave H. Dorn, November 5, 1909, purchase of mortgage on north $\frac{1}{2}$ of lot 2, block 20, except rear 41 feet, of St. Anthony City	\$879.21	
Interest for 1 month@6%.....	4.40	
	\$883.61	
Less refund to state treasurer (see list).....	12.87	
		870.74
Alexander M. Love, November 5, 1909, purchase of lot 3, block 20, of St. Anthony City.....	\$7,232.54	
Interest for 1 month@6%.....	36.43	
Taxes for year 1908.....	55.01	
	\$7,323.98	
Total check	993.53	
Less refund to state treasurer (see list).....		
		6,330.45
Elizabeth Curran, November 5, 1909, purchase of mortgage on lot 3, block 20, of St. Anthony City.....	\$1,210.45	
Interest for 1 month@6%.....	6.05	
	\$1,216.50	
Total check	146.95	
Less refund to state treasurer (see list).....		
		1,069.55
Total amount paid for the mortgage.....		

New Hampshire Savings Bank, November 5, 1909, purchase of mortgage on lot 9, block 20, of St. Anthony City	\$2,512.22	
Interest for 1 month@6%.....	12.56	
		2,524.78
George P. Loye, November 5, 1909, purchase of lot 10, block 20, of St. Anthony City.....	\$10,523.60	
Interest for 1 month@6%.....	52.97	
Taxes for year 1908.....	70.40	
Total check	\$10,646.97	
Less refund to state treasurer (see list).....	693.97	
Total amount paid for the property.....		9,953.00
Annie Kruse and John F. Kruse, December 29, 1909, purchase of the west 41 feet of the front 83 feet of lot 1, block 20, of St. Anthony City.....		3,471.00
William Pearson, November 5, 1909, purchase of mortgage on west 41 feet of front 83 feet of lot 1, block 20, of St. Anthony City	\$999.00	
Interest for 1 month@6%.....	4.99	
		1,003.99
Gotthilf Raihle, October 27, 1909, purchase of the north ½ of lot 8, block 20, of St. Anthony City.....		4,200.00
Mary T. Elliott, as guardian of William T. Elliott, a minor, November 2, 1909, purchase of the south ½ of lot 8, block 20, of St. Anthony City.....		4,200.00
Annie Kruse and John F. Kruse, January 19, 1910, additional interest on \$3,471.00, as above and interest on Pearson mortgage which was paid by them.....		48.67
James R. Canterbury, August 26, 1907, purchase of the west 75 feet of lot 10, block 21, of St. Anthony City...		8,338.25
Fritz J. Young, August 24, 1907, purchase of the rear or west 55 feet of lots 1 and 2, block 21, of St. Anthony City		10,000.00
Ione B. McAllister Tunstall, September 10, 1908, purchase of the south 22 feet of lot 8 and the north 22 feet of lot 9, block 21, of St. Anthony City.....	\$3,311.81	
Interest, 2 months@6%.....	33.11	
		3,344.92
Sarah Phrauer, September 10, 1908, purchase of mortgage on south 22 feet of lot 8 and north 22 feet of lot 9, block 21, of St. Anthony City.....	\$503.33	
Interest, 2 months@6%.....	5.03	
		508.36
William H. Hardin and Jessie Hardin, September 10, 1908, tenant of the south 22 feet of lot 8 and the north 22 feet of lot 9, block 21, of St. Anthony City.....	\$1.00	
Interest, 2 months@6%.....	.01	
		1.01
John Gustafson, September 10, 1908, purchase of the east 27½ feet of the south 44 feet of lot 9 and the 27½ feet of lot 10, block 21, of St. Anthony City.....	\$2,708.36	
Interest, 2 months@6%.....	27.08	
		2,735.44
C. L. Elliott and Nettie Elliott, September 10, 1908, tenant of the east 27½ feet of the south 44 feet of lot 9, block 21, and the east 27½ feet of lot 10, block 21, of St. Anthony City	\$1.00	
Interest, 2 months@6%.....	.01	
		1.01
Wm. H. Skinner and Eliz. Skinner, September 10, 1908, tenants of the east 27½ feet of the south 44 feet of lot 9 and the east 27½ feet of lot 10, block 21, of St. Anthony City	\$1.00	
Interest, 2 months@6%.....	.01	
		1.01
Amanda Hogness, September 10, 1908, purchase of the east 35 feet of the west 110 feet of lot 10, block 21, of St. Anthony City	\$2,641.40	
Interest for 2 months@6%.....	26.41	
		2,667.81
Charles J. Edgerton, September 10, 1908, purchase of the mortgage on the east 35 feet of the west 110 feet of lot 10, block 21, of St. Anthony City.....	\$608.60	
Interest, 2 months@6%.....	6.08	
		614.68

Gust. Gustafson, November 6, 1908, purchase of the west 27 feet of the east 55 feet of the south 44 feet of lot 9, block 21, of St. Anthony City.....	\$149.30	
Interest, 2 months@6%.....	1.49	
		150.79
John Gonestad, June 2, 1909, purchase of lot 3, block 21, of St. Anthony City, except the north 9 feet of the front 120 feet		5,300.00
James Hill, June 10, 1909, purchase of the north 44 feet of lot 8, block 21, of St. Anthony City.....		4,540.00
Grace J. Ripley, June 11, 1909, purchase of the north 9 feet of the east 210 feet of lot 3 and the south 41 feet of the north 120 feet of lot 4, block 21, of St. Anthony City		5,100.00
Julia Ofstie, June 11, 1909, purchase of the rear 45 feet of lots 4 and 5, block 21, of St. Anthony City.....		4,750.00
M. D. Rhame, July 2, 1909, purchase of all of lots 6 and 7, block 21, of St. Anthony City.....		17,000.00
Thomas A. Kelley, July 26, 1909, purchase of the east 120 feet of lot 5 and the north 25 feet of the east 120 feet of lot 4, block 21, of St. Anthony City.....		13,500.00
Martha Gustafson, August 11, 1909, purchase of the west 27½ feet of the east 55 feet of the south 44 feet of lot 9, block 21, of St. Anthony City.....		1,963.17
Henry A. Erikson, September 2, 1909, purchase of that part of lot 2, block 21, of St. Anthony City, described as follows: Commencing at the northwest corner of said lot 2, thence west along the north line of said lot 2, 110 feet, thence east along the north line of said lot east at right angles 110 feet to the east line of said, thence north to point of beginning		5,100.00
George H. Budds, June 26, 1908, purchase of the west 32½ feet of lot 1, block 21, of St. Anthony City.....	\$595.30	
Interest, 5 months@6%.....	14.90	
	\$610.20	
Less costs:	27.00	
		583.20
Leon L. Ioemans, November 5, 1909, purchase of part of lot 1, block 21, of St. Anthony City.....	\$2,614.79	
Interest for 1 month@6%.....	13.25	
Taxes for year 1908.....	35.21	
	\$2,663.25	
Total check	22.32	
Less refund to state treasurer (see list).....		
		2,640.93
Martha Gustafson, December 4, 1909, interest on award for the east 55 feet of lot 10, block 21, of St. Anthony City, from September 18, 1908, to September 1, 1909@6%		114.49
Mary Ioemans, October 15, 1910, purchase of all that part of lots 1 and 2, block 21, of St. Anthony City, described as follows: Commencing on the south line of said block 21 on Washington avenue 70 feet westerly of the southeast corner, thence westerly along Washington avenue 40 feet, thence at right angles north and parallel with Church street 92 feet, thence at right angles easterly and parallel with Washington avenue 110 feet to Church street, thence south along Church street 42 feet, thence at right angles westerly and on a line parallel with Washington avenue 70 feet, thence at right angles southerly 50 feet to point of beginning		4,500.00
John Cullen, September 18, 1908, purchase of lot 5 and the east 73 feet of lot 6, block 22, of St. Anthony City.		13,817.94
Peter Christiansen, September 16, 1908, tenant of lot 5 and the east 73 feet of lot 6, block 22, of St. Anthony City		1.04
F. R. McQueen, September 16, 1908, tenant of lot 5 and the east 73 feet of lot 6, block 22, of St. Anthony City		1.04
Edward Cullen, September 22, 1908, purchase of the west 92 feet of lot 6, block 22, of St. Anthony City.....		5,000.00
C. M. Ferguson, attorney, January 10, 1908, purchase of lot 9, block 22, of St. Anthony City.....		3,780.00

Dora Budds, February 25, 1908, purchase of lot 2, block 22, of St. Anthony City.....	\$3,700.00	
Interest, $\frac{1}{2}$ of 1%.....	18.50	
		3,718.50
James H. Budds, February 25, 1908, purchase of lot 3, block 22, of St. Anthony City.....	\$5,000.00	
Interest, $\frac{1}{2}$ of 1%.....	25.00	
		5,025.00
Edward Maloney, February 25, 1908, purchase of lot 4, block 22, of St. Anthony City.....	\$7,700.00	
Interest, $\frac{1}{2}$ of 1%.....	38.50	
		7,738.50
Minnie Boyd and J. F. Bolger, February 25, 1908, tenants of lot 4, block 22, of St. Anthony City.....		1.00
John Cullen, February 25, 1908, purchase of lot 7, block 22, of St. Anthony City	\$8,200.00	
Interest, $\frac{1}{2}$ of 1%.....	41.00	
		8,241.00
George S. Stebbins, February 25, 1908, tenant of lot 7, block 22, of St. Anthony City.....		1.00
Arthur H. Lang, February 25, 1908, tenant of lot 7, block 22, of St. Anthony City.....		1.00
Dora Budds, March 11, 1908, purchase of lot 2, block 22, of St. Anthony City; interest, $1\frac{2}{3}$ months@6%.....		12.33
James Budds, March 11, 1908, lot 3, block 22, of St. Anthony City; interest, $1\frac{2}{3}$ months@6%.....		16.66
Ida Auguste Louise Steele, March 4, 1908, purchase of the south $\frac{1}{2}$ of lot 8, block 22, of St. Anthony City.....	\$693.11	
Interest, $1\frac{1}{2}$ months@6%.....	5.20	
		698.31
Henrietta Schulz, March 4, 1908, purchase of the south $\frac{1}{2}$ of lot 8, block 22, St. Anthony City.....	\$206.89	
Interest for $1\frac{1}{2}$ months@6%.....	1.55	
		208.44
John W. Budds, June 26, 1908, purchase of the front $132\frac{1}{2}$ feet of lot 1, block 22, of St. Anthony City.....	\$2,612.41	
Interest, 5 months@6%.....	65.30	
		2,650.71
Edna Kruse, August 5, 1907, purchase of lots 2 and 7, block 23, of St. Anthony City, and lot 10, block 22, of St. Anthony City		4,200.00
Alice June Minor, April 18, 1908, purchase of north $\frac{1}{2}$ of lot 8, block 22, of St. Anthony City.....		4,000.00
Sewell M. Parker, July 16, 1907, in full payment for purchase of lot 9, block 23, of St. Anthony City.....		1,150.00
Fred B. Chute, August 15, 1908, purchase of the east 55 feet of lot 5, block 23, of St. Anthony City.....		2,500.00
Hattie W. Lonergan, September 19, 1907, purchase of lot 8, block 23, and the west 55 feet of lot 4, block 27, of St. Anthony City		2,100.00
Mrs. J. B. Rivett, March 4, 1908, tenant of lot 4, block 23, of St. Anthony City		1.00
Edgar O. Wilson, March 4, 1908, tenant of the south $\frac{1}{2}$ of lot 4, block 23, of St. Anthony City.....		1.00
Joseph O. Jorgens, February 25, 1908, purchase of north $\frac{1}{2}$ of lot 4, block 23, of St. Anthony City.....	\$3,900.00	
Inteerst, $\frac{1}{2}$ of 1%.....	19.50	
		3,919.50
D. C. Cunningham, February 25, 1908, tenant of the north $\frac{1}{2}$ of lot 4, block 23, of St. Anthony City.....		1.00
L. A. Tannehill, February 25, 1908, tenant of the north $\frac{1}{2}$ of lot 4, block 23, of St. Anthony City.....		1.00
Frank H. Kline, Association of Theta Delta Chi, February 25, 1908, purchase of east 66 feet of the west 86 feet of lot 6, block —, of St. Anthony City.....	\$4,243.85	
Interest, $\frac{1}{2}$ of 1%	21.22	
		4,265.07
Joseph G. Smith, February 26, 1908, purchase of the east 66 feet of the west 86 feet of lot 6, block 23, of St. Anthony City	\$2,556.15	
Interest@6% for 1 month.....	12.78	
		2,568.93
Frederic H. Bass, March 6, 1908, purchase of the east $44\frac{1}{2}$ feet of the west 66 feet of lot 5, block 23, of St. Anthony City		3,650.00

Mary B. Van Deren. March 4, 1908, purchase of lot 3, block 23, of St. Anthony City.....	\$3,103.05	
Interest, 1½ months@6%.....	23.26	
		3,126.31
Minneapolis Savings & Loan Association, March 4, 1908, purchase of mortgage on lot 3, block 23, of St. Anthony City	\$1,296.95	
Interest, 1½ months@6%.....	23.26	
		1,306.68
Gustaf W. Noble, March 4, 1908, purchase of the south ½ of lot 4, block 23, of St. Anthony City.....	\$2,727.13	
Interest, 1½ months@6%.....	20.44	
		2,747.57
Minneapolis Savings & Loan Association, March 4, 1908, purchase of mortgage on the south ½ of lot 4, block 23, of St. Anthony City	\$1,272.87	
Interest, 1½ months@6%.....	9.55	
		1,282.42
G. Walter Bass, June 4, 1908, purchase of the west 15½ feet of lot 5 and the east 29½ feet of lot 6, block 23, of St. Anthony City.....	\$3,950.00	
Interest from January 29 to March@6%.....	24.36	
		3,974.36
R. H. Newlon, June 26, 1908, purchase of lot 1, block 23, of St. Anthony City.....	\$300.00	
Interest, 5 months@6%.....	7.50	
Costs	18.00	
		325.50
Edward Maloney, July 8, 1908, taxes for one-half of year 1907 on lot 10, block 23, of St. Anthony City.....		9.68
M. E. Carl, June 26, 1908, tenant of lot 1, block 23, of St. Anthony City	\$1.00	
Interest, 5 months@6%.....	.03	
		1.03
Edward Maloney, June 26, 1908, purchase of lot 10, block 23, of St. Anthony City.....	\$2,300.00	
Interest, 5 months@6%.....	57.50	
	\$2,357.50	
Less taxes for year 1907.....	19.53	
		2,338.15
Edward Maloney, June 26, 1908, purchase of lot 1, block 23, of St. Anthony City.....	\$4,600.00	
Interest, 5 months@6%.....	115.00	
		4,715.00
Gustave H. Dorn, August 9, 1907, purchase of the north ½ of lot 9, block 26, of St. Anthony City, except the front or west 20 feet thereof.....		2,900.00
Trustees of the Orthodox Church, August 22, 1908, purchase of lots 3, 4, 5, 6 and 7, block 26, of St. Anthony City, except the west 20 feet of lots 6 and 7.....		17,100.00
United States Installment Realty Co., August 21, 1908, purchase of the south ½ of lot 9, block 26, of St. Anthony City, except the west front 20 feet thereof, which is included in the parkway.....		2,640.00
Kate Shea and Lizzie Shea, March 19, 1908, purchase of lot 8, block 26, of St. Anthony City, except the west 20 feet thereof, which is included in the parkway.....	\$5,000.00	
Interest, 1½ months@6%.....	41.66	
		5,041.66
James R. Canterbury, July 20, 1908, purchase of lot 9, block 27, of St. Anthony City.....		1,600.00
Ralph G. Colier, September 18, 1908, purchase of lot 3, block 27, of St. Anthony City.....		5,600.00
Frank Carlson and Caroline Carlson, November 7, 1908, purchase of lot 6, block 27, of St. Anthony City.....	\$500.00	
Interest, 9 2-5 months@6%.....	23.50	
		523.50
Kohn Kvzan, Andrew Lehet, Michael M. Zipoy and George Demcak, February 25, 1908, purchase of lot 10, block 27, of St. Anthony City.....	\$1,900.00	
Interest, ½ of 1%.....	9.50	
		1,909.50
Stella Delapenha, March 11, 1908, purchase of lot 7, block 27, of St. Anthony City.....	\$2,585.81	
Interest, 1½ months@6%.....	21.58	
		2,607.39

Carl G. Lindou, March 13, 1908, purchase of lot 7, block 27, of St. Anthony City.....	\$6,414.19	
Interest, 1½ months@6%.....	53.45	
		6,467.64
John Cullen, guardian, January 20, 1909, purchase of lot 6, block 27, of St. Anthony City.....		2,332.83
John D. Fagan, May 28, 1909, additional purchase price of lot 1, block 27, of St. Anthony City.....		100.00
Oric O. Whited, May 5, 1909, purchase of lots 1 and 2, block 27, of St. Anthony City.....		3,500.00
J. D. Bren, cashier, November 10, 1909, to make cash tender to Edward Maloney, owner, for lots 4 and 5, block 28, of St. Anthony City	\$8,119.64	
Interest on \$8,000.00, 13 months 5 days@6%.....	526.60	
		8,646.24
Oric O. Whited, May 5, 1909, purchase of lots 6, 7 and 8, block 2, of St. Anthony City.....		19,800.00
Oric O. Whited, May 5, 1909, purchase of lot 10, block 28, of St. Anthony City		2,050.00
D. W. Fagan, May 13, 1909, purchase of the east 48 feet 11 inches of lots 1 and 2, block 28, of St. Anthony City		6,000.00
John D. Fagan, May 13, 1909, purchase of lot 3, block 28, lot 9, block 28, lot 1 and lot 10, block 27, of St. Anthony City		14,070.00
David S. Irwin, May 13, 1909, purchase of the west 74 feet 10 inches of the east 133 feet, 9 inches of lots 1 and 2, block 28, of St. Anthony City.....		1,870.00
Sarah A. Irwin, May 13, 1909, purchase of the west ½ of the west ½ of lots 1 and 2, block 28, of St. Anthony City		5,530.00
Truels Madsen, May 27, 1910, purchase of lot 1 and the south 44 feet of lot 2, block 29, of St. Anthony City..		27,000.00
John Doris, May 27, 1910, tenant of the above described Truels Madsen property		1.06
Wm. C. Newgord, May 27, 1910, tenant of the above described Truels Madsen property.....		1.06
Edward R. Cooke, May 27, 1910, tenant of the above described Truels Madsen property		1.06
F. E. Peterson, May 27, 1910, tenant of the above described Truels Madsen property.....		1.06
Catherine F. Irwin, June 11, 1910, purchase of lot 5, excepting the west 40 feet thereof, and the north ½ of lot 4, block 29, of St. Anthony City, excepting the west 40 feet thereof.....		8,000.00
Margaret D. McCord, April 5, 1910, purchase of the south ½ of lot 8, excepting the rear 50 feet thereof and the north 7 feet of lot 9, excepting the rear or easterly 50 feet thereof, block 29, of St. Anthony City.....		4,900.00
Mary A. Kyle, May 18, 1910, purchase of the westerly 40 feet of lot 5 and the westerly 40 feet of the north ½ of lot 4, block 29, of St. Anthony City.....		3,261.34
William A. Wittick, November 5, 1909, purchase of mortgage on the westerly 40 feet of lot 5 and the westerly 40 feet of the north ½ of lot 4, block 29, of St. Anthony City		2,048.85
Richard Kyle, May 18, 1910, purchase of the easterly 40 feet of the lots 6 and 7, block 29, of St. Anthony City		2,687.90
William A. Wittick, November 5, 1909, purchase of the mortgage of the easterly 40 feet of lots 6 and 7, block 29, of St. Anthony City.....		1,820.16
Frank J. Pesek and Marie E. Pesek, May 19, 1910, purchase of the south 9 feet of lot 7, except the rear or east 40 feet thereof and the north 33 feet of lot 8, except the rear or easterly 40 thereof, block 29, of St. Anthony City		5,100.00
R. D. Cone, agent for Annie L. Merriam, August 26, 1910, purchase of the north 22 feet of lot 2 and the south 59 feet of lot 3 and the rear or easterly 40 feet of the north ½ of lot 8, block 29, of St. Anthony City.....		6,180.00
Annie Ryan, January 19, 1910, purchase of the South 48 feet of the northerly 57 feet of the westerly or front 80 feet of lot 7, block 29, of St. Anthony City.....		8,200.00

James McDonald, February 4, 1910, purchase of the southerly 19 feet of lot 9, except the easterly 50 feet thereof, and the northerly 21 feet of lot 10, except the easterly 50 feet thereof, block 29, of St. Anthony City		4,800.00
James Everington, December 21, 1909, purchase of the westerly 80 feet of lot 6 and the westerly 80 feet of the north 9 feet of lot 7, block 29, of St. Anthony City	\$6,764.56	
Interest, 2½ months@6%	84.56	6,849.12
Gamma Tau Chapter of Sigma Nu, January 14, purchase of the westerly 80 feet of lot 6 and the westerly 80 feet of the north 9 feet of lot 7, block 29, of St. Anthony City		2,158.85
Norwood E. Way, January 12, 1910, purchase of the north 7 feet of lot 3 and the south ½ of lot 4, block 29, of St. Anthony City		5,700.00
Anthony Zeleny and Mattie Day Zeleny, his wife, September 24, 1909, purchase of the southerly 40 feet of the northerly 47 feet of lot 9, block 29, of St. Anthony City, except the easterly 50 feet thereof.....	\$5,668.24	
Taxes for year 1908.....	31.76	
Interest, 11-5 months@6%	34.20	5,734.20
Anthony Zeleny and Mattie Day Zeleny, his wife, purchase of the easterly 50 feet of lot 10 and the easterly 50 feet of the southerly 49 feet of lot 9, block 29, of St. Anthony City	\$97.07	
Interest, 11-5 months@6% .....	.58	97.65
Anthony Zeleny and Mattie Day Zeleny, his wife, September 24, 1909, purchase of the south ½ of lot 8, and the easterly 50 feet of the north 17 feet of lot 9, block 29, of St. Anthony City	\$437.50	
Interest, 11-5 months@6%	2.63	440.13
Jessie D. Dickson, November 29, 1909, additional payment to cover taxes and interest.....		55.05
James Everington, November 10, 1909, purchase of the east 45 feet of the west 125 feet of lot 6, and the east 45 feet of the west 125 feet of the north 57 feet of lot 7, block 29, of St. Anthony City.....	\$4,649.99	
Interest, 1 month 6 days@6%	27.90	4,676.90
W. R. Will, November 10, 1909, tenant of the above described Everington property.....	\$1.00	
Interest for 1 month@6% .....	.01	1.01
Sarah J. Adair, December 4, 1909, purchase of the north 22 feet of lot 2, the south 59 feet of lot 3 and the rear or easterly 40 feet of the north ½ of lot 8, block 29, of St. Anthony City	\$3,006.67	
Interest, 1 month@6%	30.07	3,036.74
Minnesota Delta Upsilon Club, December 4, 1909, purchase equity in the north 22 feet of lot 2, the south 59 feet of lot 3 and the rear or easterly 40 feet of the north ½ of lot 8, block 29, of St. Anthony City.....	\$2,899.66	
Interest for 2 months@6%	29.00	2,928.66
Minnesota Delta Upsilon Club, December 7, 1909, for taxes for year 1908 on the above described property.....		\$6.33
Frederick Brinkman, November 11, 1909, purchase of the easterly 50 feet of lot 10 and the easterly 50 feet of the southerly 49 feet of lot 9, block 29, of St. Anthony City	\$5,099.00	
Interest, 1 month@6%	25.50	5,124.50
Jessie D. Dickson, November 8, 1909, purchase of all that part of lot 10, in block 29, of St. Anthony City, lying west of a line drawn parallel to and distant 50 feet west from the east line thereof and lying south of a line drawn parallel to and distant 21 feet south of the north line of said lot	\$6,162.73	
Interest, 1 month@6%	80.81	6,193.54

L. C. Smith, November 8, 1909, tenant of the above described Dickson property	\$1.00	
Interest for 1 month@6%.....	.01	
		1.01
Joseph B. Pike, June 5, 1909, purchase of all that part of lot 9 and 10 in block 36, of St. Anthony City, which lies south of a line drawn parallel to and distant 110 feet south from the north line thereof.....		7,250.00
Mrs. Mamie Porsch, June 9, 1909, purchase of the easterly 16 feet of lot 7 and the westerly 25 feet of lot 8, block 36, of St. Anthony City.....		4,200.00
Anthony F. Elmquist, June 4, 1909, purchase of the east 29 feet of lot 3, block 36, of St. Anthony City, and the undivided half of the westerly 8 feet of the easterly 37 feet of the said lot 3.....		5,700.00
Mary J. Crawford, June 11, 1909, purchase of the east half of lot 5, block 36, of St. Anthony City, except the south 33 feet thereof		3,200.00
William D. Crowley, June 28, 1909, purchase of the east half of lot 5, block 36, of St. Anthony City, except the southerly 33 feet thereof.....		3,200.00
Carl Schlenker, June 23, 1909, purchase of the south 55 feet of the north 110 feet of lots 9 and 10, block 36, of St. Anthony City		7,500.00
Iver Sundby, July 2, 1909, purchase of the west half of lot 4, block 36, of St. Anthony City, except the southerly 33 feet thereof		3,550.00
Katherine A. Baker, July 15, 1909, purchase of the west 50 feet of lot 7, block 36, of St. Anthony City.....		2,350.00
Elmer F. Aliman, July 24, 1909, purchase of the west ½ of lot 5, block 36, of St. Anthony City, except the southerly 33 feet thereof		3,600.00
Gottlieb Bodamer, July 26, 1909, purchase of the southerly 33 feet of lots 4 and 5, block 36, of St. Anthony City..		3,400.00
Edward M. Freeman, July 26, 1909, purchase of the northerly 55 feet of lots 9 and 10, block 36, of St. Anthony City		2,500.00
Ella Fahey, August 12, 1909, purchase of the westerly 29 feet of lot 3 and the undivided one-half of the westerly 8 feet of the easterly 37 feet of lot 3, block 36, of St. Anthony City		4,000.00
Asher E. Morris, August 11, 1909, purchase of the south one-third of lots 1 and 2, block 36, of St. Anthony City		4,200.00
Mrs. Lora Cheney, September 11, 1909, purchase of the east 41 feet of lot 8, block 36, of St. Anthony City, with the understanding that she shall now execute and deliver a deed of the property and that she shall have at least \$227.00 additional, and more, if the commissioners award higher than \$1,927.00.....		1,700.00
Mrs. Lora Cheney, November 18, 1909, additional price on the above property as per agreement.....		227.00
Grace Gray Choate, February 7, 1910, purchase of lot 6, block 36, of St. Anthony City.....		6,031.91
Penn Mutual Life Insurance Co., October 30, 1909, purchase of mortgage on lot 6, block 36, of St. Anthony City		3,103.70
E. A. Benjamin, October 30, 1909, purchase of mortgage on lot 6, block 36, of St. Anthony City.....		1,020.00
Susanna A. Everington, October 28, 1909, purchase of the north third of lots 1 and 2, block 36, of St. Anthony City		7,000.00
James Everington, October 28, 1910, purchase of the south half of the north two-thirds of lots 1 and 2, block 36, of St. Anthony City		4,399.00
James Everington, November 8, 1910, interest on \$4,399.00 from October 9 to November 6, 1909@6%.....		19.80
John Gustafson, September 10, 1908, purchase of lot 3, block 37, of St. Anthony City.....	\$3,533.59	
Interest, 2 months@6%.....	35.33	
		3,568.92
Ezra Manore and Amanda Manore, September 10, 1908, tenants of lot 3, block 37, of St. Anthony City.....	\$1.00	
Interest for 2 months@6%.....	.01	
		1.01

George M. Bleecker, June 9, 1908, purchase of lots 4, 5, 6, 7 and 8, block 37, of St. Anthony City.....		5,250.00
Bridget Burns, administratrix of the estate of Thos. H. Burns, deceased, May 19, 1909, purchase of lot 2, block 37, of St. Anthony City.....		3,319.46
Emma Paige, August 20, 1909, purchase of lot 9, block 37, of St. Anthony City		1,800.00
Michael Shelley, June 4, 1908, purchase of an undivided one-third, commencing at the northeast corner of lot 5, block 38, thence west on the north line of lot 5 110 feet to the corner of a tract conveyed by Eliza Malone to Elizabeth Kops, thence at right angles south across lots 5 and 4, and distant 10 feet into lot 3, thence east and parallel to the north line of said lot 4 to the east line of said lot 3; thence north to the point of beginning, of St. Anthony City.....		1,280.35
Michael J. Shelley, guardian, June 4, 1908, purchase of an undivided two-thirds of the following: Commencing at the northeast corner of lot 5, block 38, of St. Anthony City, thence conveyed by Eliza Malone to Elizabeth Kos, thence at right angles south across lots 5 and 4 and a distance of 10 feet into lot 3, thence east and parallel to the north line of said lot 4 to the east line of said lot 3, thence north to the point of beginning		2,560.70
E. C. Chatfield, September 19, 1907:		
Abstracts lot 5, block 39.....	\$3.25	
Abstracts lots 4, 3, block 39.....	21.15	
Abstracts lots 1, 2, 3, 4 and 5, block 38.....	9.00	
		33.40
Edward Maloney, February 25, 1908, purchase of lot 2, block 39, except the west 20 feet thereof, of St. Anthony City	\$1,150.00	
Interest, 1 month@6%.....	5.75	
		1,155.75
Carrie E. Chatfield, December 23, 1908, purchase of lot 5, block 39, of St. Anthony City, except the west 20 feet thereof included in the parkway.....		2,750.00
Arthur McMullen, March 4, 1908, purchase of lot 1, block 39, of St. Anthony City, except the west 20 feet thereof included in the parkway.....	\$600.00	
Interest, 1½ months@6%.....	4.50	
		604.50
Arthur McMullen, March 4, 1908, purchase of lots 3 and 4, block 39, of St. Anthony City, except the west 20 feet thereof, included in the parkway.....	\$6,000.00	
Interest, 1½ months@6%.....	45.00	
		6,045.00
Arthur McMullen, March 24, 1908, additional interest for one-half month on \$6,000.00@6%.....		15.00
Arthur McMullen, March 24, 1908, additional interest on \$600.00 for one-half month@6%.....	\$1.50	
One per cent on \$600.00 payable to clerk of court.....	6.06	
		7.56
Annie Flannigan, March 15, 1910, purchase of lot 1 and the easterly 34 feet of lot 2, block 44, of St. Anthony City		5,162.56
Dennis Trainor and Felix Trainor, January 25, 1910, purchase of lots 2, 3, 4 and 5, block 44, of St. Anthony City, excepting the easterly 34 feet of lot 2 in said block 44 and also excepting that part of lots 3, 4 and 5 heretofore conveyed to the City of Minneapolis, to-wit: Beginning at a point in the west line of said lot 5, being the easterly boundary line of said lot 5, being the easterly boundary line of Church street, 50 feet north from the southwest corner of said lot 5 and running thence south to said southwest corner, thence east along the south line of said lot 140 feet, thence running in a direct line northwesterly 148 32-100 feet to point of beginning		4,675.48
Timothy Flynn, November 5, 1909, purchase of mortgage on lot 1 and the east 34 feet of lot 2, block 44, of St. Anthony City	\$337.44	
Interest, 1 month@6%.....	1.69	
		339.13

Timothy Flynn, November 5, 1909, purchase of mortgage on part of lots 2, 3, 4 and 5, block 44, of St. Anthony City, described above	\$404.94	
Interest, 1 month@6%.....	2.02	
		406.96
Malacky Lemhan, November 5, 1909, purchase of mortgage on part of lots 2, 3, 4 and 5, block 44, of St. Anthony City	\$1,129.70	
Interest, 1 month@6%.....	5.64	
		1,135.34
To pro rata portion of premiums on insurance policy No. 6100, Insurance Company of North America, for unexpired term, June 16, 1908, to February 18, 1910.....	\$15.55	
To pro rata portion of premium on insurance policy No. 15491, Insurance Company of North America, for unexpired term, June 18, 1908, to March 1, 1909.....	4.35	
		19.80
Wm. T. Comstock, March 14, 1908, to advertising in "Architect" and Builders' Magazine, one-quarter page for one month.....		18.00
Review Publishing Co., February 12, 1908, receipts, stipulations for judgment warranty deeds, notices of appellate court, etc.		64.00
Pioneer Press Co., February 20, 1908, to advertising disposal third, three times.....		4.35
Minneapolis Tribune, March 13, 1908, "Campus Plans," 108 lines at \$0.14.....		15.12
The Journal Printing Co., February 29, 1908, advertising "Campus Plans," 78 lines at \$0.08.....		6.24
The Dispatch Printing Co., February 15, 1908, advertising "Campus Plans," 4 f., three times.....		6.05
Daily Legal News, March 13, 1908, notice of application of appointment of commissioners, in the condemnation proceedings, State of Minnesota vs. Bowen et al.....		62.43
William B. Dana Co., July 27, 1908, for advertising "For sale," 15 lines two times.....		9.00
The League Stores Co., July 27, 1907, Certificates of Indebtedness, 150	\$25.00	
Additional 500	40.00	
		65.00
Porter, Taylor & Co., March 15, 1908, to advertising, month of February	\$20.00	
To advertising, month of March.....	20.00	
		40.00
The American Architect, March 16, 1908, to advertising, month of February	\$4.50	
To advertising, month of March.....	4.50	
		9.00
Cass Gilbert, architect, June 30, 1908, first prize awarded to most successful competitor in competition for the selection of a general plan for the laying out of the grounds and locating the buildings on the Campus of the University of Minnesota.....		1,000.00
Dillon & Beadel, June 30, 1908, second prize awarded to the next most successful competitor in competition for the selection of a general plan for the laying out of the grounds and locating the buildings on the Campus of the University of Minnesota.....		500.00
D. H. Burnham, architect, May 25, 1908, to traveling expenses of Mr. Burnham and Mr. Bennett, Chicago to Minneapolis and return	\$40.00	
To services of E. H. Bennett in connection with competition, two days@\$50.00 per day.....	100.00	
		140.00
Wm. M. Kenyon, architect, May 27, 1908, to professional services on Campus competition.....		100.00
Walter Cook, May 25, 1908, traveling expenses.....	\$114.89	
To professional services in connection with the Campus competition	100.00	
		214.89
Minnikahda Club, June 30, 1908, dinner given by L. S. Gillette		22.05
Wm. H. Yardley, treasurer Town and County Club, May 31, 1908, dinner given for D. H. Burnham, W. Cook, Clifford L. S. Gillette, Wm. Kenyon.....		11.35

The Hotel Plaza, May 22, 1908, expense of H. Burnham..	\$11.90	
Walter Cook, May 21, 1908.....	15.87	
E. H. Bennett, May 22, 1908.....	5.35	
		33.12
American Express Co., June 8, 1908, express on one pack- age	\$1.45	
Adams Express Co., June 5, 1908, thirteen Campus plans.	28.95	
		30.40
A. D. T., February 23, 1908, to messenger carrying papers from C. J. Rockwood's office to University of Minne- sota	\$0.35	
E. Rhode, February 5, 1908, to estimates on buildings for the commission from December 19 to January 14—19½ days@\$7.50 per day	146.25	
		146.60
Fred E. Barney, August 29, 1908, services as witness in appeal cases in St. Anthony City Campus enlarge- ment:		
Lot 5, block 39, Chatfield.....	\$5.00	
Lots 4, 5, 6 and 7, block 26, Greek Church.....	5.00	
Lot 1, block 22, Eudds.....	5.00	
Parts of lots 5 and 6, block 22, and lot 6, block 27, Cul- len and Berry	5.00	
Lot 3 and north one-half lot 2, block 11, Wincheil.....	5.00	
		25.00
Fred E. Barney, September 11, 1907, services with D. P. Jones, in valuation of certain property in St. Anthony City, five days' time at \$10.00 per day.....		50.00
David P. Jones & Co., September 13, 1907, to services in matter of appraisal of proposed enlarged Campus in conjunction with Fred E. Barney, five days@\$10.00 per day		50.00
F. G. McMillan, September 16, 1907, sixteen days' labor appraising dwellings on enlarged Campus.....		160.00
H. N. Leighton Co., September 16, 1907, appraising build- ings on extension of University Campus, 16 days@\$10 per day		160.00
E. Rhode, June 2, 1908, to three days in court and testify- ing in Greek Church case@\$7.50 per day.....	\$22.50	
June 15, 1908, two days in court and testifying in John Cullen case@\$7.50 per day.....	15.00	
June 8, 1908, three days giving testimony before com- missioners, State vs. Bowen et al.....	22.50	
		60.00
Frank H. Nutter, March 30, 1908, surveys, estimates and plans of lands and quarries designated for addition to Campus:		
Self, 4¾ days	\$38.00	
Self and one assistant, 3 days.....	30.00	
Self and two assistants, 3¼ days.....	39.00	
Transit and one assistant, half a day.....	5.00	
Drafting, 14¾ days	59.00	
Blue prints	8.00	
		179.00
E. Rhode, April 2, 1908, estimates and figuring on build- ings, under direction of Attorney C. J. Rockwood, 27 days@\$7.50 per day		202.50
James C. Millard, February 20, 1908, to services as com- missioner in the above entitled actions and proceed- ings between November 7 and the 30th day of January, 1908, pursuant to the orders of the court heretofore made and filed therein on the 6th and 13th days of November, 1908, consisting of 31 days@\$10.00 per day, University of Minnesota vs. Sarah P. Gale et al., and Margaret Cullen et al.....		310.00
Walter H. Gould, February 20, 1908, University of Minne- sota, Sarah P. Gale et al. and Margaret Cullen et al. To services as commissioner in the above entitled ac- tions and proceedings between November 7, 1907, and the 30th day of January, 1908, pursuant to the orders of the court heretofore made and filed therein on the 6th and 13th days of November, 1907, consisting of 31 days@\$10.00 per day.....		310.00
Joseph F. Moore, December 31, 1908, to valuations and testimony in behalf of the Regents of the University of the State of Minnesota, relating to lands in blocks 10, 11, 12, 13, 23, 26, 27, 38 and 39, in St. Anthony City, during the months of November and December, 1907, and May and June, 1908.....		150.00

R. D. Cone, September 29, 1908, to services as witness before jury in appeal cases:		
State vs. Chatfield	\$10.00	
State vs. Greek Church	10.00	
State vs. John Budds	10.00	
State vs. Maloney	10.00	
State vs. John Cullen	10.00	
To services as appraiser before commission:		
As to parcel 44; owner, D. W. Fagan.....	5.00	
As to parcel 45; owner, D. S. Irwin	5.00	
As to parcel 46; owner, L. A. Irwin.....	5.00	
As to parcel 47; owner, J. D. Fagan.....	5.00	
As to parcel 48; owner, E. Maloney	5.00	
As to parcel 49; owner, O. O. Whited	5.00	
As to parcel 50; owner, J. D. Fagan.....	5.00	
As to parcel 51; owner, O. O. Whited.....	5.00	
As to parcel 52; owner, Mary Fagan	5.00	
As to parcel 53; owner, Thos. A. Burns	5.00	
As to parcel 54; owner, John Gustafson	5.00	
As to parcel 55; owner, Mary Fagan	5.00	
		110.00
John Leslie, September 1, 1908, to services as commissioner under appointment by order of the District Court of Hennepin County, Minnesota, made and filed in the office of the clerk of said court on May 5, 1908, in an action therein pending wherein State of Minnesota and University of Minnesota are petitioners and Mary Bowen et al. are respondents, 27 days at \$10.00 per day.....		
		270.00
Cyrus W. Wells, September 1, 1908, to services as commissioner under appointment by order of the District Court of Hennepin County, Minnesota, made and filed in the office of the clerk of said court on May 5, 1908, in an action therein pending wherein State of Minnesota and University of Minnesota are petitioners and Mary Bowen et al. are respondents, 27 days at \$10.00 per day.....		
		270.00
Willard R. Gray, September 1, 1908, to services as commissioner under appointment by order of the District Court of Hennepin County, Minnesota, made and filed in the office of the clerk of said court on May 5, 1907, in an action therein pending wherein State of Minnesota and University of Minnesota are petitioners and Mary Bowen et al. are respondents, 27 days at \$10.00 per day.....		
		270.00
Fred B. Chute, November 1, 1907, to services rendered in acquiring properties for the University Campus extension from various owners and gathering information for same based on 75 days at \$10.00 per day.....		
		750.00
Frank H. Nutter, November 2, 1908, attendance at court, in re. Campus Extension.....		
		7.50
J. W. Dreger, sheriff Hennepin County, November 7, 1907, State of Minnesota vs. Gale et al., service.....		
Travel	\$29.00	
	6.40	
		35.40
Michael J. Shelly, as father, October 11.....	\$0.66	
Joseph M. Shelly, October 11.....	.66	
Elizabeth and Margaret Shelly, October 11.....	1.16	
John Cullen, as guardian, October 8.....	.66	
J. C. Berry, as father, October 22.....	.50	
John Cullen, as guardian, October 8.....	3.64	
J. C. Berry, as father; Frank C. Berry, Herbert Cullen Berry, October 22	1.98	
Peter Andren, October 22.....	.50	
Gurina Gunderson, Mrs. S. P. Andren, October 22.....	1.32	
Mary Kellar, October 15.....	2.10	
Edward C. Gale, Mary Kelly, Edward Maloney, Kate Shea, Lizzie Shea, Mrs. Ralph G. Collier, Margaret Forrest, Ida M. Lindon, Patrick Kelly, Emily A. Maloney, John Erickson, Oric O. Whited, Mary E. Lovett, Ralph G. Collier, Carl G. Lindon, Chas. Gustafson, Michael Zipoy, Mrs. Michael Zipoy, Mrs. Andrew Lehet, George Demcak, Mrs. Geo. Demcak, John Kvzian, John Cullen, Andrew Lehet, Mrs. John Kvzian, October 7; Northern Display Advertising Co., Patrick J. Finnegan, Edna E. Simpson, Robert Simpson, October 9; Trustees of the Greek Orthodox Church, Michael J. Shelly, Samuel A. Reed, Stella Delapinha, Abbie A. Reed, October 11; F. W. Farnham, Carrie E. Chatfield, Caroline Carlson, Patrick Ryan, Richard		

Ryan, John B. Atwater, Barbara Schwend, E. C. Chatfield, Frank Carlson, October 12; Victor Calander, Sarah P. Gale, October 14; service.....	22.50
Travel	3.36
State of Minnesota vs. Cullen et al., October 29, service.	40.00
Travel	2.72
Henrietta Schultz, Alfred H. Kenyon, October 21.....	\$1.00
Ida August Louis Steele, October 19.....	.50
George A. W. Steele, October 19.....	.50
J. V. Martenis, October 22.....	.50
Minnesota Loan & Trust Co., October 21.....	.66
Arthur H. Lange, October 24.....	.50
George S. Stebbins, October 19.....	.50
Peter Christianson, October 24.....	.50
F. R. McQueen, October 19.....	.50
James H. Budds, Helga M. Budds, October 19.....	1.50
J. F. Bolger, Jane Budds, October 19.....	.50
Minnie Boyd, October 22.....	.50
Emily A. Maloney, October 21.....	.50
Edward Maloney, October 21.....	.50
Gustav Dorn, October 21.....	.50
J. C. Berry, October 22.....	.50
J. C. Berry, as father, Herbert Cullen Berry, October 22.	1.00
John Cullen, October 29.....	.82
Wm. Williamson, October 24.....	.50
H. R. Zahner, October 22.....	.50
J. B. Johnson, October 22.....	.50
L. A. Tannehill, October 19.....	.50
C. D. Cunningham, October 19.....	.50
Edgar O. Wilson, October 19.....	.50
Mrs. J. V. Rivett, October 24.....	.50
Fritz J. Young, October 19.....	.50
Wilhelmina Young, October 19.....	.50
Ole Elwell, October 21.....	.50
R. H. Newlon, October 21.....	.50
Mrs. N. E. Carl, October 21.....	.50
Northern Display Advertising Co., October 21.....	.66
The Frank J. Kline Association, October 24.....	.50
Frederick H. Bass, October 19.....	.50
Lillian L. Bass, October 19.....	.50
Joseph O. Jorgens, Anna Jorgens, October 23.....	1.32
Gustave W. Noble, October 21.....	.50
Sarah A. Van Deren, Alma C. Noble, October 21.....	1.16
Minneapolis Savings & Loan Association, October 21....	.66
Furgess W. Van Deren, October 19.....	.50
Mary B. Van Deren, October 19.....	.50
S. T. Olson, October 24.....	.50
Bessie Budds, Alice June Minor, October 19.....	1.00
George H. Budds, October 24.....	.50
John W. Budds, October 19.....	.50
El. Paulson, October 24.....	.50
Phi Rho Sigma, October 24.....	.50
Jacob Stolt, Elizabeth Stolt, October 21.....	1.32
E. Eidswold, October 19.....	.50
I. W. Switzer, Cora Switzer, October 22.....	1.00
Mary E. Pratt, October 21.....	.50
Charlotte S. Winchell, October 19.....	.50
Newton H. Winchell, W. D. Kavanaugh, October 19....	1.00
Acacia Club, October 24.....	.82
Wm. Kirchner, October 19.....	.66
John Cullen, as guardian, October 22.....	1.00
Frank Berry, Herbert Cullen Berry, October 22.....	1.32
John Cullen, October 19 .....	.50
Catherine C. Cullen, October 19.....	.50
Edward S. Cullen, October 19.....	.50
Elizabeth Cullen, October 19.....	.50
Jennie Esterbrook, October 19.....	.50
James T. Esterbrook, October 19.....	.50
Margaret Cullen, Bridget Cullen, October 19.....	1.82
Not found returns as to Mary V. Jackson, R. D. Kavanaugh, Hans Simonson, R. A. Odegard, Enda Krause, Simon Krause, Lucy H. Duncan, Wm. Duncan, Minnie A. Price, G. Walter Bass, Joseph G. Smith, Clara Glimore, October 24	1.00
Chelsea J. Rockwood, June 5, cash subpoenas, Greek Church case	\$0.25
June 5, carfares, serving subpoenas, Greek Church case	.15
June 5, carfares, jury, Greek Church case.....	.65
June 5, carfares, Chatfield case .....	.65
June 9, court fees, Budd case.....	9.00

June 9, taxes paid lots 3, 4 and 5, block 37.....	26.51
June 11, recording two Shelly deeds.....	1.35
June 11, carfares, jury in Budds case.....	.65
June 12, court fees in Cullen case.....	5.00
June 12, court fees in Berry case.....	2.00
Dec 17, court reporter, transcript Greek Church case..	2.00
June 19, court fees, Maloney case.....	6.00
June 22, recording Bleecher and Cook deeds.....	1.65
June 24, witness fee, T. J. Janney, Cullen case.....	5.00
June 24, court reporter, transcript of testimony of various witnesses	22.00
June 30, John Corser, photographs.....	6.00
July 2, court reporter, testimony and transcript.....	6.80
July 2, carfares, jury in Mahoney case.....	1.30

96.96

Mar. 6, street car fares	\$0.90
Mar. 9, sheriff's fees, Anoka County, State vs. Bowen.	1.20
Mar. 9, Allan J. Wash, service of potices.....	12.50
Mar. 10, sheriff's fees, Hennepin County, State vs. Bowen	2.92
Mar. 10, clerk's fees for certified copies commissioners' reports	2.25
Mar. 10, sheriff's fees, service on Lucy Duncan.....	9.91
Mar. 13, recording four satisfactions of mortgage.....	2.00
Mar. 16, recording satisfaction Price mortgage.....	.70
Mar. 19, recording satisfaction Delapenha mortgage....	.45
Mar. 21, street car fares	1.55
Mar. 28, recording satisfaction of Mary V. Jackson mortgage .....	.55
April 27, transcript, State vs. Bowen.....	4.20
May 8, recording satisfaction of mortgage, Dorn to Minor .....	.45
May 20, clerk's fees, State vs. Winchell.....	2.00
May 20, street car fares, jury.....	1.40
May 21, clerk's fees, State vs. Chatfield.....	2.00
May 21, clerk's fees, appeal cases	8.00
May 21, witness fees, Anderson, Haglin, Leighton, State vs. Chatfield	3.72
May 26, witness fees, Jones, State vs. Chatfield.....	1.14
May 26, subpoenas, State vs. Chatfield.....	.50
May 26, carfares .....	.65
June 2, witness fees, State vs. Trustees Greek Church	5.08
June 2, clerk's fees, State vs. Trustees Greek Church.	2.00

66.07

C. J. Rockwood, July 17, recording deeds as follows:

July 17, 1907, lot 9, block 23, of St. Anthony City.....	\$0.55
July 22, lot 4, block 27.....	.55
Aug. 30, south half of lot 9, block 26.....	.55
Sept. 3, part of lot 10, block 12, and Smith deed, part of lots 9 and 10, block 11.....	1.10
Sept. 9, recording Canterbury deed to west 75 feet of lot 10, block 12.....	.55
Sept. 9, parts of lots 1 and 2, block 13.....	.55
Sept. 11, part of lot 10, block 21.....	.55
Sept 11, recording Lonergan deed to part of lots 4 and 5, block 27 .....	.55
Aug. 19, east 55 feet of lot 5, block 23, and lots 2 and 9, block 10	2.20
Aug. 13, Dorn deed, port of lot 2, block 20.....	.55
Aug. 9, Kruse transfer, lot 10, block 22, lots 2 and 7, block 23	3.00
Oct. 14, 1907, sheriff's fees, Washington County, State vs. Gale	1.20
Oct. 17, clerk's fees, State vs. Cullen.....	1.00
Oct. 17, notice of lis pendens, State vs. Cullen.....	2.50
Oct. 4, clerk's fees, State vs. Gale.....	1.00
Oct. 4, recording notice of lis pendens, State vs. Gale.	2.25
Oct. 25, sheriff's fees, Goodhue County, State vs. Cullen	7.40
Nov 4, livery service, notice on Margaret Shelly.....	2.50
Nov. 8, street car fares .....	.70
Dec. 31, recording deed of Swan and Bettie Nelson.....	.55
Jan. 30, 1908, copies of commissioners' report.....	2.60
Feb. 19, clerk's fees, State vs. Bowen.....	3.00
Feb. 19, Recording lis pendens, State vs. Bowen.....	7.25
Feb. 25, sheriff's fees, Washington County, State vs. Bowen	1.20
Feb. 26, 1908, sheriff's fees, Goodhue County, State vs. Bowen	2.20
Feb. 26, sheriff's fees, McLeod County, State vs. Bowen	2.20
Feb. 28, recording satisfaction of mortgage.....	.45
Mar. 2, sheriff's fees, Sibley County, State vs. Bowen.	7.60
Mar. 2, sheriff's fees, Todd County, State vs. Bowen...	8.00

64.30

C. J. Rockwood, October 3, 1908, to services in examining titles, closing purchases, taking condemnation proceedings, trials of appeals, payments of awards and securing receipts and deeds to date.....	\$5,000.00	
By cash	1,500.00	
		3,500.00
C. J. Rockwood, April 14, 1908, as part payment on account for services in condemnation proceedings.....		1,500.00
A. T. Ankeny, June 4, 1908, appeared for Alexander M. Love, Mary T. Elliott, as guardian, Margaret M. Devlin, George P. Love and Julia Ofstie, attorney's fees		50.00
Geo. C. Ripley, June 4, 1908, attorney's fees for Leon F. Loemans and Mary Loemans.....		20.00
A. B. Choate, June 4, 1908, attorney's fees for Henry A. Erickson and Thomas A. Kelley.....		20.00
Gjertsen & Lund, June 4, 1908, attorney's fees for Malin Johnson		10.00
John A. Nordin, June 5, 1908, attorney's fees for Annie Kruse		10.00
Hall & Kolliner, June 4, 1908, attorney's fees for John A. Gonestead		10.00
C. V. Smith, June 4, 1908, attorney's fees for Minnesota Loan & Trust Co.		10.00
Paul J. Thompson, June 4, 1908, attorney's fees for Grace J. Ripley		10.00
A. S. Cutler, July 6, 1908, nine days' work during the month of June in charge of survey of Campus for Board of Regents at \$150.00 per month.....		45.00
A. S. Cutler, August 19, fifteen days' labor during August in charge of survey of Campus for Board of Regents at \$150.00 per month		72.58
A. S. Cutler, July 31, 1908, labor during July in charge of the survey of the Campus for the Board of Regents at \$150.00 per month.....		150.00
G. M. Shepard, July 6, 1908, nine days' labor during June, as rodman on survey of Campus for Board of Regents at \$50.00 per month		15.00
G. M. Shepard, August 19, fourteen days' labor during August as rodman on survey of Campus for Board of Regents at \$50.00 per month.....		22.58
Geo. M. Shepard, July 31, labor as rodman during July on survey of Campus for Board of Regents.....		50.00
Ingwald Kvitrud, July 6, 1908, nine days' labor during June as chairman on survey of Campus for Board of Regents at \$35.00 per month.....		10.50
Ingwald Kvitrud, July 31, labor as chairman during July on survey of Campus for Board of Regents.....		35.00
J. C. Childs, July 6, 1908, nine days' labor during June as rodman on survey of Campus for Board of Regents at \$50.00 per month		15.00
J. C. Childs, July 31, labor as rodman during July on survey of Campus for Board of Regents.....		50.00
Merill Abstract Co., August 11, 1907:		
	Judgt.	Sch.
August 1, lots 1, 2, 3, 8, 9, 10, block 11, St. Anthony City	\$17.25	\$3.10
August 31, 1907, lots 8 and 9, block 21, abstract..	3.00	2.15
August 31, 1907, lot 10, block 12, abstract.....	5.25	1.60
August 2, lots 3, 8, block 12, abstract.....	5.75	.40
August 5, lots 3, 8, block 10, abstract.....	11.25	1.15
August 5, lots 1 and 10, block 10, abstract.....	4.00	1.00
August 13, lot 7, block 20, abstract.....	1.75	.70
August 20, lot 6, block 20.....	2.00	.70
August 20, part lot 10, block 21, abstract.....	1.00	.40
August 20, lots 1, 2, 3, 8, block 13, abstract.....	9.50	3.55
	\$60.75	\$14.75
		75.50
Merill Abstract Co., July 31, 1907, 7-10 lot 9, block 27 of St. Anthony City, abstract.....	\$1.75	\$1.00
July 23, lots 9, 2, block 26, abstract.....	6.00	2.95
July 25, lots 5, 6, 7, block 22, abstract.....	12.00	.....
July 25, lots 5, 6, 7, block 22, abstract.....	4.25	1.45
July 25, lots 1, 2, block 21, abstract.....	4.75	1.90
July 25, lots 2, 9, block 10, abstract.....	4.75	.40
	\$33.50	\$7.70
		41.20

Miller-Davis Printing Co., February 20, 1908, specifications for Campus plans, 250 copies 8-page folder.....		13.50
John A. Schlener Stationery Co., July 6, 1908, tracing cloth and ink for making maps of Campus for Board of Regents as per bill.....		4.10
Ralph H. Rawson, maps for Campus.....		25.00
Rogers & Co., September 1, 1908, blue print paper.....		10.15
Andrews Heating Co., April 3, 1908, repairs on heating plant at 303 Washington avenue SE.....		12.00
Minneapolis Gas Fixture Co., September 28, 1907, gas fixtures for 303 Washington avenue SE.....		27.30
John Wennerbow, November 26, two curtains complete for upstairs rooms, 319 Washington avenue SE.....		1.40
Joseph D. Bren, cashier, April 30, Wells, Fargo & Co., express on Campus plans	\$6.01	
April 30, Adams Express Co., express on Campus plans.	9.64	
April 28, American Express Co., express on Campus plans	3.25	
April 29, United States Express Co., express on Campus plans	7.35	
April 30, American Express Co.	1.20	
April 30, Wells, Fargo Express Co.	2.00	
April 30, blueprinting Campus maps, 27 hours at 40 cents per hour	10.80	
		40.25
Wm. H. Donahue, January 28, 1908, for stenographic services in making report to District Court in the matter of the State of Minnesota and the University of Minnesota, petitioners vs. Sarah P. Gale et al., respondents, 23 folios at \$0.10.....	\$2.30	
Also for stenographic services on making report in the matter of the State of Minnesota and the University of Minnesota, petitioners vs. Margaret Cullen et al., respondents, 29 folios at \$0.10.....	2.90	
January 30, 1908, to services as commissioner in the above entitled action and proceedings between November 7, 1907, and the 30th day of January, 1908, pursuant to the order of the court heretofore made and filed therein on the 6th and 13th days of November, 1907, consisting of 33 days at \$10.00 per day.....	330.00	
January 30, to stenographic expenses incurred as per bill attached	5.20	
		335.20
Providence Institution for Savings, January 8, 1908, semi-annual interest due January 10, 1908, on certificates Nos. 1 to 8 inclusive		2,250.00
State of Minnesota, March 19, 1908, interest due on bonds of indebtedness for the University Campus extension of \$50,000 September 19, 1907.....		1,125.00
Minnesota Loan & Trust Co., July 6, 1908, payment of interest on certificates of indebtedness issued for the University Campus extension, Nos. 1 to 8 inclusive, \$100,000, 4½% 6 months, due July 10, 1908.....		2,250.00
State of Minnesota, August 1, 1908, interest on certificates of indebtedness, Nos. 10 to 69 inclusive, 60 coupons, due August 1, 1908, \$150 each.....		9,000.00
State of Minnesota, September 18, 1908, interest due on bonds of indebtedness for the University Campus extension of \$50,000, dated September 19, 1907, certificate No. 9.		1,125.00
Minnesota Loan & Trust Co., January 8, 1909, interest on certificates of indebtedness, Nos. 3 to 8 inclusive, due January 10, 1909, six coupons.....		1,787.50
Expense of committee of engineering faculty on its tour of inspection, January 24 to February 5, 1908, advanced from this fund until funds for the new engineering building are available. Detailed statement of expense in voucher 5790.....		500.00
State of Minnesota, March 19, 1909, interest due on certificates of indebtedness No. 9, due March 19.....		1,125.00
State of Minnesota, February 1, 1909, interest on certificates of indebtedness Nos. 10 to 69 inclusive, due February 1, 1909, 60 coupons.....		6,750.00
Frank H. Nutter, January 14, 1909, blue prints of lands for Campus enlargement		3.00

Frank H. Nutter, June 28, 1909, survey and location of buildings and plans of blocks 29, 36 and 44. of St. Anthony City		30.50
The Review Publishing Co., June 2, 1909, copies of notices of appointment of commissioners—State of Minnesota and the University of Minnesota vs. Kriesel et al. and petitions in same case.....		55.50
C. J. Rockwood, June 30, 1909, note books.....	\$0.70	
July 6, recording Ogaard satisfaction of mortgage and Maloney deed	1.00	
July 16, recording Annie Ryan deed.....	.55	
Aug. 15, recording discharge of lis pendens, State vs. Bowen .....	.70	
Aug. 31, recording Walther satisfaction of mortgage...	.45	
Sept. 18, continuance of Kenyon appeal.....	.25	
Oct. 21, sheriff of Washington County for services on Louis E. Schatz	1.20	
Oct. 21, sheriff for serving notices.....	1.20	
Oct. 21, sheriff for serving notice on Hankinson.....	2.20	
Oct. 21, sheriff for serving notice on Faste.....	2.50	
Oct. 28, sheriff for serving notice on Holasek.....	3.56	
Nov. 5, recording Tunstall deed and Schatz satisfaction of mortgage	1.10	
Nov. 9, recording A. Nelson deed.....	.55	
Nov. 11, clerk's fees, money paid into court for Holasek	15.34	
Nov. 23, recording Edgarton satisfaction of mortgage...	.25	
Nov. 24, recording Sylvester satisfaction of mortgage...	.25	
Nov. 25, Anoka National Bank for obtaining Edgarton's signature to satisfaction of mortgage.....	.25	
Jan. 21, recording satisfaction of Whittier mortgage...	.55	
Feb. 9, continuance of appeal cases	4.50	
Feb. 15, sheriff for service on Duncans.....	7.60	
Mar. 10, final deposit State vs. Cullen.....	4.00	
Mar. 11, recording judgment State vs. Cullen.....	1.60	
Mar. 20, filing answer in tax case.....	1.00	
April 15, sheriff serving notice	1.00	
April 26, clerk's fees in tax case	2.00	
May 18, filing certified copies of agreement with Berry minors	1.00	
May 29, clerk's fees State vs. Kreisel.....	1.00	
May 29, recording lis pendens State vs. Kreisel.....	8.50	
June 7, sheriff's fees State vs. Kreisel.....	1.00	
June 19, recording Gonestad deed .....	.55	
June 19, recording Ripley deed .....	.55	
June 21, clerk's fees, money paid into court for Burns.	33.20	
June 21, recording satisfaction Hill mortgage.....	.55	
June 21, sheriff's fees State vs. Kreisel.....	6.16	
June 21, recording Crawford deed .....	.55	
June 22, recording satisfaction Elmquist mortgage.....	.65	
June 25, recording Pike deed .....	.55	
June 25, recording Ofstie deed .....	.55	
June 25, sheriff Itasca County, service on Zustiake.....	25.40	
June 29, recording Cone deed .....	.55	
		135.06
State of Minnesota, July 10, 1909, interest on certificates of indebtedness Nos. 3 to 8 inclusive, issued by the University of Minnesota, and held by the Minnesota Loan & Trust Co.		1,687.50
State of Minnesota, August 1, 1909, interest due on certificates of indebtedness Nos. 10 to 69 inclusive, due August 1, 1909		6,750.00
State of Minnesota, August 1, 1909, interest due on certificates of indebtedness Nos. 70, 71, 76 and 77, due August 1, 1909		466.68
State of Minnesota, August 1, 1909, interest due on certificates of indebtedness, Nos. 72, 73, 77 and 78, due August 1, 1909		466.68
Chute Insurance Agency, February 13, 1909, insurance on 423 Beacon street SE., in N. H. Company, three years at \$1.50	\$37.50	
Insurance on 423 Beacon street SE. in Aetna Co., three years, \$2,500, at \$1.50.....	37.50	
Insurance on 323 Prospect street SE., in Aetna Co., three years, \$1,200, at \$0.90.....	10.80	
		85.80
The Western Architect, March 6, 1909, 500 Campus extension reports	\$135.00	
To an extra zinc etching of map.....	4.08	
		139.08

Frank H. Nutter, July 31, 1909, preparing new Campus plans	\$24.50	
Blue prints	8.40	
		32.90
Merrill Abstract Co., July 31, 1909, abstracts of nine deeds in St. Anthony City		72.25
E. Rhode, August 27, 1909, estimating buildings in blocks 20, 29 and 36 from April 25 to August 27, 281 hours at \$1.00 per hour		281.00
Journal Printing Co., August 31, 1909, advertising 56 lines at 8 cents per line.....		4.48
Cass Gilbert, architect, September 1, 1909, first payment for services as architect for the new Campus.....		3,500.00
C. J. Rockwood, attorney, September 14, 1909, on account of services in condemnation proceedings.....		1,500.00
State of Minnesota, September 17, 1909, interest on certificates of indebtedness No. 9, due September 9, 1909		1,125.00
J. D. Bren, cashier, September 16, 1909, to Roy Decker distributing notices of sale of houses on new Campus		1.75
Henry C. Hicks, October 9, 1909, to disbursement made by Henry G. Hicks as chairman of the commissioners appointed by order of the District Court on the 21st day of July, 1909, to ascertain and report to the court the amount of damages that would be sustained for the taking of lands described in the petition filed in the matter in which said commissioners were appointed:		
Sept. 16, to two-seated carriage and driver, ½ day.....	\$3.00	
Sept. 30, to carriage and driver, one whole day.....	6.00	
Oct. 4, to carriage and driver, 4 hours.....	3.50	
July 23, to September 22, to five trips on street car to University grounds and return at 10 cents each for each commissioner	1.50	
Cash paid to stenographer for preparing report.....	2.50	
		16.50
Henry G. Hicks, October 9, 1909, to 31 days' service as commissioner in making and filing award in the above entitled matter		310.00
Luth Jaeger, October 9, 1909, to 31 days' service as commissioner in making and filing award in the above entitled matter		310.00
Chas. S. Woodruff, October 9, 1909, University of Minnesota vs. Gustave F. Kreisel, to 31 days' service as commissioner in making and filing award in the above entitled matter		310.00
R. D. Cone & Co., October 1, 1909, to services as expert witness in appeal cases—Mahoney, Washington and Church streets. SE.....		10.00
Fred E. Barney, October 21, 1909, fees as witness as to value of lots 4 and 5, block 28, of St. Anthony City..		5.00
N. H. Winchell, September 18, 1909, insurance premium paid on Nos. 112 and 118 Statestreet SE., for eleven months following the transfer of the property.....		19.25
J. D. Bren, cashier, December 11, 1909, to stenographic services, 4½ hours at \$0.50.....	\$2.25	
November 20, Allan J. Wash, carfares.....	.55	
Seven hours as messenger at \$0.50 per hour.....	3.50	
		6.30
James McDonald, February 26, 1910, gas fixtures, gas range, gas heater, shades and unexpired insurance...		66.06
J. D. Bren, cashier, November 9, 1909, to runabout for one-half day		3.00
Dr. Raymond V. Phelan, August 31, 1910, for cancellation of his lease of 309 Church street SE.....		70.00
N. F. Way, August 31, 1910, for cancellation of his lease of 312 Union street SE.....		400.00
Mrs. Sophia Anderson, August 31, 1910, for cancellation of her lease of No. 307 Church street SE.....		400.00
O. H. Peck & Co., June 2, 1910, for material for making enlargement of Campus plans.....		7.75
Klee-Thomson Co., May 12, 1910, plaster scale model of new Campus with block outlines of buildings of the University of Minnesota as per March 17 authorization		590.00

J. D. Bren, cashier:

May 26. Adams Express Co., express on plaster casts of new Campus	\$39.60
June 17, 1910. interest advanced from cash in University Campus condemnation proceedings	3.18

42.78

C. J. Rockwood, June 2, 1910:

Mar. 4. to cash, opinion Betcher vs. C. M. & St. P. Ry. Co.	\$2.75
Mar. 7. to cash, filing answer 1908 delinquent tax case	1.00
Mar. 15. to cash, N. Barnard, execution quit-claim deed.	1.00
Mar. 23. to cash, entry of judgment, Watts case.....	2.00
April 6. to cash, execution of Watts case.....	.50
April 19. to cash, in filing order for judgment, 1908 delinquent tax case	1.00
April 20. to cash, recording sundry deeds.....	36.80
April 21. to cash, certified copy order and answer, delinquent tax case, 1907.....	1.50
April 22. to cash, sheriff's fees State vs. Kriesel.....	1.00
May 2. to cash, tax 1907 on east 70 feet of south 50 feet, lot 1, block 21, of St. Anthony City.....	42.28
May 6. to cash, clerk's fees, tax case.....	2.00
May 13. to cash, service of notice on Zustiacke.....	25.20
May 19. to cash, re-record Holasek deed and recording McCord mortgage	1.15

118.18

J. D. Bren, cashier, April 23, 1910, American Express Co., express on two boxes of plans from Cass Gilbert, New York

22.62

J. D. Bren, cashier, April 12, 1910, D. G. Wright, extra expense in moving house No. 413 Essex street SE....

100.00

The United States Fidelity & Guaranty Co., February 1, 1910, to premium on bond in suit State vs. Gustave F. Kreisel et al

100.00

C. J. Rockwood, March 21, 1910, to services in condemnation proceedings

1,500.00

C. J. Rockwood, February 17, 1910:

Nov. 9, 1908, to cash, recording Phraner satisfaction of mortgage	\$0.55
July 8, 1909, to cash, carfare, serving notices in case State vs. Kriesel	3.00
July 9, to cash, filing Schlenker deed .....	.55
July 14, to cash, copies of lists of deeds.....	8.00
July 20, to cash, recording satisfaction of Rhame mortgage .....	.55
July 20, to cash, recording Elmquist deed.....	.55
July 20, to cash, recording three Sundby deeds.....	1.55
July 22, to cash, recording Brinkman deed.....	.55
July 23, to cash, recording Baker deed.....	.55
July 27, to cash, recording Moeller deed and satisfaction of mortgage	1.00
Aug. 4, to cash, recording Altman and Brennan deeds..	1.30
Aug. 5, to cash, recording Crouley deed.....	1.10
Aug. 6, to cash, recording Bodamer deed.....	.65
Aug. 6, to cash, recording Freeman deed.....	.55
Aug. 7, to cash, recording Johnson deed.....	.65
Aug. 10, to cash, recording Porsch deed.....	.70
Aug. 10, to cash, recording Kelly deed.....	.65
Aug. 10, to cash, recording Baker deed.....	.55
Aug. 11, to cash, recording Hardwood Manufacturing Co. deed .....	.55
Aug. 18, to cash, recording Erkel power of attorney, satisfaction of mortgage and deed.....	1.75
Aug. 31, to cash, clerk's fees University vs. Watts.....	1.00
Sept 10, to cash, recording Erikson deed and satisfaction of mortgage	1.30
Sept 17, to cash, recording Fahey deed and satisfactions	1.65
Sept. 20, to cash, recording copy of final judgment State and University of Minnesota vs. Gale.....	1.75
Sept. 20, to cash, recording Morris deed and satisfactions	1.65
Oct. 26, to cash, clerk's fees, Gale case.....	2.00
Nov. 6, to cash, recording Cheney deed.....	.55
Nov. 6, to cash, recording two Everington deeds and Benjamin assignment	1.65
Nov. 6, to cash, recording Raible deed.....	.65
Nov. 11, to cash, recording Elliot deed.....	.65
Nov. 12, to cash, exchange—remittances to New Hampshire Savings Bank	3.28
Nov. 12, to cash, recording assignment Wittick mortgage and New Hampshire Savings Bank mortgage...	.90

Nov. 15, to cash, recording G. P. Loye deed.....	.70	
Nov. 15, to cash, recording Everington deed to part of lots 6 and 7, block 29.....	.65	
Nov. 15, to cash, recording A. M. Loye deed and satisfac- tion of mortgage	1.00	
Nov. 16, to cash, balance on Wm. Pearson mortgage...	1.01	
Nov. 16, to cash, John and Matilda Miller, award of commissioners with interest (Bowen case).....	1.08	
Nov. 16, to cash, Lars and Christie Stoney, award of commissioners with interest (Bowen case).....	1.08	
Nov. 16, Ole and Dora Gjerde, award of commissioners with interest (Bowen case).....	1.08	
Nov. 16, to cash, recording assignment of Pearson mort- gage .....	.55	
Nov. 16, to cash, recording Brinkman deed.....	.55	
Nov. 26, to cash, expense making tenders and serving notices	1.05	
Nov. 27, to cash, recording Dickson deed and Dorn as- signment of mortgage	1.20	
Dec. 2, to cash recording Gust Gustafson deed.....	.55	
Dec. 4, to cash, paid Malacky Lenihan balance of in- terest on mortgage	5.64	
Dec. 4, to cash, recording assignment Lenihan mort- gage .....	.55	
Dec. 6, to cash, additional amount paid on Flynn mort- gage	3.61	
Dec. 7, to cash, recording Flynn assignment of mort- gage .....	.55	
Dec. 8, to cash, paid on Wittick mortgage to complete settlement	10.32	
Dec. 9, to cash, recording D. U. deed.....	.55	
Nov. 9, to cash, recording Wittick mortgage.....	.55	
Nov. 9, to cash, recording Adair deed.....	.55	
Dec. 28, to cash, recording Zeleny deeds.....	1.40	
Dec. 29, to cash, recording Zeleny satisfaction.....	.55	
Dec. 31, to cash, recording Kruse deed and re-recording Benjamin assignment of mortgage.....	1.20	
Dec. 31, to cash, recording Everington Sigma Nu deed.	.65	
1910.		
Jan. 4, to cash, paid Martha Gustafson, error in in- terest	3.30	
Jan. 8, to cash, clerk's fees, Maloney case.....	2.00	
Jan. 22, to cash, telegram to Dickson.....	.35	
Feb. 9, to cash, clerk's fees, Watts case.....	2.00	
		86.70
Joseph F. Moore, December 18, 1909, to services 15 days' appraisals and testimony in behalf of the Regents of the Minnesota State University before a board of commissioners in re real estate properties in blocks 20, 21, 29, 36 and 44, of St. Anthony City in Minneapolis		200.00
Frank P. Nicoll, December 7, 1909, to appraising of blocks 20, E1½ of 21, 29, 36 and 44, of St. Anthony City, for extension of University Campus.....		150.00
Legal News Publishing Co., June 25, 1909, notice of ap- pointment of commissioners State vs. Kriesel et al..	\$62.43	
Oct. 31, 1907, In re State of Minnesota vs. Gale et al., appointment of commissioners	26.47	
		88.90
A. E. Allen, clerk of district court, December 3, 1909, fee for deposit money in court in the case of State of Minnesota and University of Minnesota, petitioners vs. Mary Bowen et al., respondents.....		86.87
A. E. Allen, clerk of district court, December 3, 1909, fee of 1% for deposit of tender in case State of Minne- sota and University of Minnesota vs. Kriesel et al...		26.41
State Treasurer, September 8, 1910, interest for one month and nine days on the \$250,000 advanced by the state treasurer to meet certificates of indebtedness due August 1, at 4%.....		121.88
State Treasurer, July 30, 1910, interest on certificates of indebtedness Nos. 70, 71, 76 and 77, due August 1, 1910, and held by the Northwestern National Bank of Minneapolis		2,000.00
State Treasurer, July 30, 1910, interest on certificates of indebtedness, Nos. 72, 73, 78 and 79, due August 1, 1910, and held by the First National Bank of Minne- apolis		2,000.00
Treasurer State of Minnesota, July 30, 1910, interest on certificates of indebtedness, Nos. 30 to 69 inclusive, due August 1 and held by the Minnesota Loan & Trust Co. of Minneapolis		4,500.00

State Treasurer, July 11, 1910, interest on certificates of indebtedness, Nos. 5 to 8 inclusive, due July 10, 1910, and held by the Minnesota Loan & Trust Co. of Minneapolis		1,125.00
R. D. Cone & Co., March 19, 1910, interest on Merriam mortgage, due April 1		180.20
Treasurer State of Minnesota, February 1, 1910, interest on certificates of indebtedness, Nos. 72, 73, 78 and 79, held by the First National Bank of Minneapolis.....		2,000.00
Treasurer State of Minnesota, February 1, 1910, interest on certificates of indebtedness, Nos. 30 to 69 inclusive, held by the Minnesota Loan & Trust Co. of Minneapolis		4,500.00
Treasurer State of Minnesota, February 1, 1910, interest on certificates of indebtedness, Nos. 70, 71, 76 and 77, held by the Northwestern National Bank of Minneapolis		2,000.00
Treasurer State of Minnesota, January 10, 1910, interest due on certificates of indebtedness, Nos. 5 to 8 inclusive, held by the Minnesota Loan & Trust Co. of Minneapolis		1,125.00
Northern Display Advertising Co., awarded.....		.01
John Gustafson, to second half of taxes 1907, paid October 26, 1908, on lot 3, block 37, of St. Anthony City.....	\$15.41	
To second half taxes 1907, paid October 26, 1908, on east 27 feet of lot 10 and east 27 feet of south 44 feet of lots 9 and 10, block 21, of St. Anthony City.....	14.64	
		30.05
C. H. Johnston, September 26, 1910, to professional services rendered as architect in re new engineering building, University of Minnesota, Minneapolis, Minn., on account		400.00
C. H. Johnston, October 25, 1910, to profession services rendered as architect in re new engineering building, University of Minnesota, Minneapolis, Minn., on account		200.00
The following are refunds of amounts drawn and not used in the purchase of property—See list at end of statement of receipts:		
Leon F. Loemans, voucher No. —, 1908 taxes.....	\$22.32	
W. A. Fennell, voucher No. 2567.....	1.00	
A. N. Parker, voucher No. 2745.....	5,000.00	
Annie and James F. Kruse, voucher No. 2847.....	3,518.50	
Grace Gray Choate, voucher No. 2862.....	6,329.99	
Felix and Dennis Trainor, voucher No. 2867.....	4,463.49	
Alexander Loye, owner, voucher No. 2853.....	\$7,323.98	
Alexander Loye, owner, accepted.....	6,330.45	
		993.53
Elizabeth Curran, mortgagee, voucher No. 2852.....	\$1,216.50	
Elizabeth Curran, mortgagee, accepted.....	1,069.55	
		146.95
Leon F. Loemans, voucher No. 2860.....	3,216.00	
Maragret Devlin, voucher No. 2856.....	1,963.32	
Annie Flannigan, voucher No. 2864.....	4,668.24	
Gustave F. Kriesel, voucher No. 2845.....	4,522.50	
Geo. P. Loye, voucher No. 2859.....	\$10,646.97	
Geo. P. Loye, accepted.....	9,953.00	
		693.97
Gustave H. Dorn, voucher No. 2849.....	3,638.89	
Alex. M. Loye, voucher No. 2850.....	1.01	
Alex. M. Loye, voucher No. 2851.....	1.01	
James D. Shearer, voucher No. 2854.....	1,507.50	
E. L. Lawrence, voucher No. 2857.....	1.01	
Nels C. Hansen, voucher No. 2858.....	1.01	
Taxes, 1908, voucher No. 2868, lot 9, block 20.....	37.36	
Taxes, 1908, voucher No. 2870, lots 1 and 2, block 44.....	19.31	
Taxes, 1908, voucher No. 2871, lots 2, 3, 4 and 5, block 44..	28.26	
Taxes, 1908, voucher No. 2874, lot 10, block 29.....	40.00	
Ole Elwell, voucher No. 9551.....	1.07	
P. Anderson, voucher No. 5515.....	1.00	
Mrs. G. Gunderson, voucher No. 5514.....	1.00	

Taxes, 1907, voucher No. 8266, lots 1 and 2, block 13.....	5.47	
Taxes, 1907, voucher No. 8428, lot 1, block 12.....	22.39	
Taxes, 1907, voucher No. 8263, lot 9, block 12.....	23.44	
Taxes, 1907, voucher No. 8261, lot 8, block 12.....	30.82	
Taxes, 1907, voucher No. 8250, lot 3, block 12.....	17.38	
Taxes, 1907, voucher No. 8257, lot 3, block 12.....	46.90	
Taxes, 1908, voucher No. 8252, lot 1, block 12.....	43.58	
Taxes, 1907, voucher No. 8283, lot 3, block 37.....	15.41	
Taxes, 1907, voucher No. 8431, lot 9, block 21.....	.70	
Taxes, 1907, voucher No. 8277, lot 10, block 21.....	14.64	
Taxes, 1907, voucher No. 8273, lot 9, block 21.....	23.86	
Taxes, 1907, voucher No. 8270, lots 9 and 10, block 13.....	79.03	
G. H. Dorn, voucher No. 2848.....	12.87	
		41,154.73
Total		\$876,087.28
Redeemed Board of Regents certificates of indebtedness:		
Nos. 1, 3, 5, at \$10,000.00.....	\$30,000.00	
Nos. 2, 4 and 6 at \$15,000.00.....	45,000.00	
No. 9	50,000.00	
Nos. 10 to 49 inclusive, 40 at \$5,000.00.....	200,000.00	
Total certificates redeemed.....		325,000.00
Disbursements, grand total.....		\$1,201,087.28

SUMMARY.

Receipts, see detailed statement above.....	\$1,228,402.64
Disbursements, see detailed statement above.....	1,201,087.28
Balance November 30, 1910.....	\$37,315.36

II. ELLIOTT HOSPITAL SITE FUND.

RECEIPTS.

LIST OF SUBSCRIPTIONS.

Pillsbury, A. F.	\$5,000.00	
Shevlin, Thomas H.	5,000.00	
Dunwoody, Wm. H.	5,000.00	
Gale, Mrs. E. C.	3,900.00	
Janney, T. B.	2,500.00	
McKnight, S. T.	2,500.00	
Wyman, Partridge Co.	2,000.00	
Rand Estate	1,500.00	
Carpenter, E. L.	1,000.00	
Pillsbury, John S., Jr.	1,000.00	
Pillsbury, Charles S.	1,000.00	
Bovey, Charles A.	1,000.00	
Jones, W. A.	1,000.00	
Clifford, F. H.	1,000.00	
Martin, Chas. J.	1,000.00	
Gillette, L. S.	1,000.00	
Bell, James S.	500.00	
Webber, C. C.	500.00	
Mapes, E.	500.00	
Bennett, R. M.	500.00	
Carpenter, E. J.	500.00	
Wm. Donaldson Co.	500.00	
Boutell, P. D.	500.00	
Palace Clothing Co.	200.00	
Simmons, Chester, Manager.	100.00	
Schibsby, M., Treasurer.	100.00	
Sewell, S. L., Treasurer.	100.00	
Harris, W. L.	100.00	
Gangelhoff, C. H.	100.00	
Velie, C. D.	100.00	
Voegeli Bros. Drug Co.	100.00	
Thorpe, S. S.	100.00	
Cullen, John	100.00	
Lindsay, T. B.	100.00	
		\$40,100.00
Interest on bank deposits to November 30, 1910.....		874.63
Total receipts.....		\$40,974.63

DISBURSEMENTS.

Patrick Kelley, February 25, 1908, purchase of lot 2, block 26, of St. Anthony City.....	\$2,573.90	
Interest, $\frac{1}{2}$ of 1%.....	12.87	
		\$2,586.77
Mary Keller, February 25, 1908, purchase of lot 9, block 26, of St. Anthony City.....	\$926.10	
Interest, $\frac{1}{2}$ of 1%.....	4.63	
		930.73
Edward Maloney, February 25, 1909, purchase of lot 10, block 26, except the west 20 feet thereof, St. Anthony City	\$1,600.00	
Interest, $\frac{1}{2}$ of 1%.....	8.00	
		1,608.00
Mary E. Lovett, February 25, 1908, purchase of lots 4 and 5, block 27, of St. Anthony City.	\$11,500.00	
Interest, $\frac{1}{2}$ of 1%.....	57.50	
		11,557.50
Margaret Forrest, February 25, 1908, purchase of lease of lots 4 and 5, block 27, of St. Anthony City		1.00
Edna Simpson, February 25, 1908, purchase of lot 8, block 27, of St. Anthony City.....	\$1,300.00	
Interest, $\frac{1}{2}$ of 1%.....	6.50	
		1,306.50
Michael J. Shelley, February 25, 1908, purchase of lots 1, 2 and 3, except the north 10 feet of lot 3, block 38, of St. Anthony City.....	\$8,184.00	
Interest, $\frac{1}{2}$ of 1%.....	40.92	
		8,224.92
Charles Gustafson, February 25, 1908, purchase of lease of lots 1, 2 and 3, except the north 10 feet of lot 3, block 38, of St. Anthony City		1.00
Elizabeth Kops Downey, February 25, 1908, purchase of the west 55 feet of lots 4 and 5, and west 55 feet of lot 5, block 38, of St. Anthony City	\$1,755.00	
Interest, $\frac{1}{2}$ of 1%.....	8.78	
		1,763.78
Bridget Ryan, February 25, 1908, purchase of lots 6, 7, 8, 9 and 10, block 38, of St. Anthony City	\$7,500.00	
Interest, $\frac{1}{2}$ of 1%.....	37.50	
		7,537.50
		35,517.70
Balance		\$5,456.93
Note: The following subscriptions have not been received:		
George M. Gillette		\$500.00
C. W. Gardner		100.00
W. D. Gregory		100.00
		\$700.00

III. TAXES, UNIVERSITY CAMPUS AND NEW ENGINEERING BUILDING FUND.

(Under the provisions of Minnesota Laws of 1907, Chapter 359 and Minnesota Laws of 1909, Chapter 480.)

RECEIPTS.

Collections, March, 1908	\$27,495.34
Collections, April, 1908	9,005.92
Collections, May, 1908	None
Collections, June, 1908	47,055.02
Collections, July, 1908	30,964.20
Collections, August, 1908	14,399.30
Collections, September, 1908	8,129.16
Collections, October, 1908	None
Collections, November, 1908	32,348.78
Collections, December, 1908	22,405.90
Collections, January, 1909	5,607.30
Collections, February, 1909	3.40

Collections, March, 1909	24,757.12
Collections, April, 1909	8,916.02
Collections, May, 1909	None
Collections, June, 1909	41,083.53
Collections, July, 1909	22,680.04
Collections, August, 1909	11,934.92
Collections, September, 1909	5,304.69
Collections, October, 1909	None
Collections, November, 1909	21,214.16
Collections, December, 1909	23,264.74
Collections, January, 1910	3,102.50
Collections, February, 1910	208.62
Collections, March, 1910	25,952.36
Collections, April, 1910	13,170.62
Collections, May, 1910	18.81
Collections, June, 1910	35,410.90
Collections, July, 1910	29,811.30
Collections, August, 1910	23,696.11
Collections, September, 1910	5,267.93
Collections, October, 1910	None
Collections, November, 1910	23,509.00
Total receipts to November 30, 1910.....	\$516,717.69

DISBURSEMENTS.

Redeemed Board of Regents certificates of indebtedness:	
Nos. 1, 3 and 5, at \$10,000.00.....	\$30,000.00
Nos. 2, 4 and 6, at \$15,000.00.....	45,000.00
No. 9	50,000.00
Nos. 10 to 49 inclusive, at \$5,000.00.....	200,000.00
Total certificates redeemed.....	325,000.00
Balance November 30, 1910.....	\$191,717.69

UNIVERSITY CAMPUS EXTENSION FUND.

CERTIFICATE PRINCIPAL AND INTEREST.

Certificate No.	Interest.	Principal.	Due.	Fund from which to be Paid.	To Whom to be Made Payable.
1-8 Incl.....	\$2,250.00		Jan. 10, 1908	Campus.....	Minn. L. & T.
9.....	1,125.00		Mar. 19, 1908	Campus.....	State of Minn.
1-8 Incl.....	2,250.00		July 10, 1908	Campus.....	Minn. L. & T. Co.
1 and 2.....		\$25,000.00	July 10, 1908	Tax.....	Minn. L. & T.
10 to 69 Incl....	9,000.00		Aug. 1, 1908	Campus.....	Minn. L. & T.
9.....	1,125.00		Sept. 19, 1908	Campus.....	State of Minn.
3 to 8 Incl.....	1,687.50		Jan. 10, 1909	Campus.....	Minn. L. & T.
10 to 69 Incl....	6,750.00		Feb. 1, 1909	Campus.....	Minn. L. & T.
9.....	1,125.00		Mar. 19, 1909	Campus.....	State of Minn.
3 to 8 Incl.....	1,687.50		July 10, 1909	Campus.....	Minn. L. & T.
3 and 4.....		25,000.00	July 10, 1909	Tax.....	Minn. L. & T.
10 to 69 Incl....	6,750.00		Aug. 1, 1909	Campus.....	Minn. L. & T.
10 to 29.....		100,000.00	Aug. 1, 1909	Tax.....	Minn. L. & T.
70, 71, 76, 77...	466.68		Aug. 1, 1909	Campus.....	N. W. Natl. Bk.
72, 73, 78, 79...	466.68		Aug. 1, 1909	Campus.....	First Natl. Bk.
9.....	1,125.00		Sept. 19, 1909	Campus.....	State of Minn.
9.....		50,000.00	Sept. 19, 1909	Tax.....	State of Minn.
5 to 8 Incl.....	1,125.00		Jan. 10, 1910	Campus.....	Minn. L. & T.
30 to 69 Incl....	4,500.00		Feb. 1, 1910	Campus.....	Minn. L. & T.
70, 71, 76, 77...	2,000.00		Feb. 1, 1910	Campus.....	N. W. Natl. Bk.
72, 73, 78, 79...	2,000.00		Feb. 1, 1910	Campus.....	First Natl. Bk.
5 to 8 Incl.....	1,125.00		July 10, 1910	Campus.....	Minn. L. & T.
5 and 6.....		25,000.00	July 10, 1910	Tax.....	Minn. L. & T.
30 to 69 Incl....	4,500.00		Aug. 1, 1910	Campus.....	Minn. L. & T.
30 to 49 Incl....		100,000.00	Aug. 1, 1910	Tax.....	Minn. L. & T.
70, 71, 76, 77...	2,000.00		Aug. 1, 1910	Campus.....	N. W. Natl. Bk.
72, 73, 78, 79...	2,000.00		Aug. 1, 1910	Campus.....	First Natl. Bk.
	\$55,058.36	\$325,000.00	Interest and principal on Board of Regents certificates of indebtedness paid to date of this report.		

Certificate No.	Interest.	Principal.	Due.	Fund from which to be Paid.	To Whom to be Made Payable.
7 and 8 Incl....	\$562.00		Jan. 10, 1911	Campus.....	Minn. L. & T.
50 to 69 Incl....	2,250.00		Feb. 1, 1911	Campus.....	Minn. L. & T.
70, 71, 76, 77...	2,000.00		Feb. 1, 1911	Campus.....	N. W. Natl. Bk.
72, 73, 78, 79...	2,000.00		Feb. 1, 1911	Campus.....	First Natl. Bk.
7 and 8.....	562.50		July 10, 1911	Campus.....	Minn. L. & T.
7 and 8.....		\$25,000.00	July 10, 1911	Tax.....	Minn. L. & T.
50 to 69 Incl....	2,250.00		Aug. 1, 1911	Campus.....	Minn. L. & T.
50 to 69 Incl....		100,000.00	Aug. 1, 1911	Tax.....	Minn. L. & T.
70, 71, 76, 77...	2,000.00		Aug. 1, 1911	Campus.....	N. W. Natl. Bk.
72, 73, 78, 79...	2,000.00		Aug. 1, 1911	Campus.....	First Natl. Bk.
70, 71, 76, 77...	2,000.00		Feb. 1, 1912	Campus.....	N. W. Natl. Bk.
72, 73, 78, 79...	2,000.00		Feb. 1, 1912	Campus.....	First Natl. Bk.
70, 71, 76, 77...	2,000.00		Aug. 1, 1912	Campus.....	N. W. Natl. Bk.
70, 71.....		50,000.00	Aug. 1, 1912	Tax.....	N. W. Natl. Bk.
72, 73, 78, 79....	2,000.00		Aug. 1, 1912	Campus.....	First Natl. Bk.
72, 73.....		50,000.00	Aug. 1, 1912	Tax.....	First Natl. Bk.
76, 77.....	1,000.00		Feb. 1, 1913	Campus.....	N. W. Natl. Bk.
78, 79.....	1,000.00		Feb. 1, 1913	Campus.....	First Natl. Bk.
76, 77.....	1,000.00		Aug. 1, 1913	Campus.....	N. W. Natl. Bk.
76, 77.....		50,000.00	Aug. 1, 1913	Tax.....	N. W. Natl. Bk.
78, 79.....	1,000.00		Aug. 1, 1913	Campus.....	First Natl. Bk.
78, 79.....		50,000.00	Aug. 1, 1913	Tax.....	First Natl. Bk.
	\$25,625.00	\$325,000.00	Balance of interest and principal unpaid on certificates of indebtedness at same date.		
Totals.....	\$80,683.36	\$650,000.00			

IV. RENTS UNIVERSITY CAMPUS BUILDINGS FUND.

RECEIPTS.

Rents collected from buildings on new Campus extension from September 1, 1907, to December 6, 1910.		
Collections, year 1907-08.....	\$2,014.03	
Collections, year 1908-09.....	7,179.04	
Collections, year 1909-10.....	10,970.52	
Collections, year 1910-11, ending December 6, 1910.....	4,706.10	
Total receipts		\$24,869.69

DISBURSEMENTS.

Repairs, year 1907-08.....	\$955.85	
Repairs, year 1908-09.....	1,902.37	
Transferred to University general repairs fund.....	5,417.42	
Repairs, year 1909-10.....	5,915.02	
Repairs, year 1910-11, ending December 6, 1910.....	1,413.21	
Total disbursements		15,603.87
Balance, ending December 6, 1910.....		\$9,265.82

THE GEOLOGICAL AND NATURAL HISTORY SURVEY.

Financial Statement for the Biennium Ending July 31, 1910. For the Year Ending July 31, 1909.

RECEIPTS.

Balance on hand August 1, 1908.....	\$23,406.81	
To Severt Johnson, January 19, 1909, interest and penalty	\$39.87	
To Samuel Levisson, January 19, 1909, in full of contract.	862.40	
To E. A. Smith, March 9, 1909, interest.....	121.46	
To Ella M. Cook, March 24, 1909, in full of contract.....	1,010.55	
To Henry Olson, May 18, 1909, in full of contract.....	357.89	
To Samuel B. Greene, June 8, 1909, sale of Greene's work on Forestry	28.00	
To Mrs. R. Meader, June 19, 1909, interest and penalty....	24.30	
To Fred E. Clements, June 28, 1909, sale of botanical reports	92.68	
To James T. Gerould, July 28, 1909, sale of survey reports.	13.65	
Total receipts		2,550.90
		\$25,957.61

DISBURSEMENTS.

August expense list.....	\$593.97	
September expense list	1,337.13	
October expense list.....	677.77	
November expense list.....	744.92	
December expense list	571.49	
January expense list	330.00	
February expense list	486.50	
March expense list.....	428.50	
April expense list.....	406.17	
May expense list	365.00	
June expense list	581.68	
July expense list.....	712.95	
		<hr/>
		7,236.08
Balance on hand July 31, 1909.....		<hr/>
		\$18,721.53

THE GEOLOGICAL AND NATURAL HISTORY SURVEY.

Financial Statement for the Biennium Ending July 31, 1910. For the Year
 .. Ending July 31, 1910.

RECEIPTS.

Balance on hand August 1, 1909.....		\$18,721.53
To R. Meader, November 3, 1909, interest.....	\$12.14	
Samuel B. Greene, December 8, 1909, sale of Greene's work on Forestry	7.25	
Frederic E. Clements, December 10, 1909, sale of botanical reports	6.30	
Frederic E. Clements, April 4, 1910, sale of botanical re- ports	8.00	
Samuel B. Greene, April 30, 1910, sale of Greene's work on Forestry	5.00	
Frederic E. Clements, May 25, 1910, sale of botanical re- ports	7.00	
To Wistar Institute of Anatomy, refund.....	22.00	
James T. Gerould, July 28, 1910, sale of survey reports....	30.33	
		<hr/>
		98.02
Total receipts		<hr/>
		\$18,819.55

DISBURSEMENTS.

August expense list.....	\$448.47	
August expense list (supplementary).....	348.73	
September expense list.....	708.55	
October expense list.....	414.71	
November expense list.....	397.50	
December expense list	383.90	
January expense list.....	1,638.07	
February expense list.....	435.92	
March expense list.....	919.25	
April expense list.....	340.20	
May expense list	342.59	
June expense list.....	973.11	
July expense list.....	573.84	
Overcharge on warrant .....	.20	
		<hr/>
		7,925.04
Balance on hand July 31, 1910.....		<hr/>
		\$10,894.51

TRUST FUNDS.

THE GILFILLAN TRUST FUND.

This fund of \$50,000 is the gift of the Hon. John B. Gilfillan of Minneapolis to the University of Minnesota, the income of which shall be at the disposal of its Board of Regents, either as a **Gift** or a **Temporary Loan** to university students who are residents of Minnesota. The recipient is to be a person of good moral character, of temperate and industrious habits, and evince an aptitude for study to entitle him to the benefits of this fund.

The fund is invested in "4 per cent Sioux R. R. bonds," the income of which is \$2,000 per annum, payable semi-annually. This income is loaned to students in amounts not exceeding \$200 to any one person in one year, at the rate of 5 per cent.

Commencing in February, 1902, 158 persons have received aid from this fund, of which 120 were men and 38 were women.

To the close of the fiscal year July 31, 1910, 38 persons have paid their loans in full, both principal and interest. 13 persons have paid interest in full and a good part of the principal. 29 persons have paid only interest in full.

- 33 persons have paid trifling sums.
- 23 persons have paid nothing.
- 2 persons have received gifts.
- 20 persons will pay their first interest in 1910-11.

158 Total.

AMOUNTS LOANED "TO" STUDENTS AND RECEIVED "FROM" STUDENTS.

	Loans.	Receipts
During the fiscal year 1902.....	\$980.00	\$25.42
During the fiscal year 1903.....	1,410.00	137.75
During the fiscal year 1904.....	1,605.00	104.39
During the fiscal year 1905.....	3,370.00	442.75
During the fiscal year 1906.....	2,486.00	708.02
During the fiscal year 1907.....	3,161.00	1,378.46
During the fiscal year 1908.....	3,183.00	643.46
During the fiscal year 1909.....	2,890.20	1,098.86
During the fiscal year 1910.....	2,995.30	2,560.80
Total loans	\$22,080.50	
Total collections from students.....		\$7,099.91

FINANCIAL STATEMENT FOR THE FISCAL YEAR ENDING JULY 31, 1909.

RECEIPTS.

Balance on hand August 1, 1908.....		\$1,109.71
Interest on bonds, 1909-10.....	\$2,000.00	
Collections from students	1,098.86	
		3,098.86
Total receipts		\$4,208.57

DISBURSEMENTS.

Loans to students, 1908-09.....		2,890.20
Balance on hand July 31, 1909.....		\$1,318.37

FINANCIAL STATEMENT FOR THE YEAR ENDING JULY 31, 1910.

RECEIPTS.

Balance on hand August 1, 1909.....		\$1,318.37
Interest on bonds, 1909-10.....	\$2,000.00	
Collections from students	2,560.80	
		4,560.80
Total receipts		\$5,879.17

DISBURSEMENTS.

Loans to students, 1909-10.....		2,995.20
Balance on hand July 31, 1910.....		\$2,883.87

THE ELLIOTT TRUST FUNDS.

This is a fund of five thousand dollars, the gift of Mrs. Mary H. Elliott of California, formerly of Minneapolis, to the University of Minnesota, the income of which shall be at the disposal of the Board of Regents to aid students of the School of Mines. The fund is invested in "Northern Pacific Prior Lien Gold Bearing Bonds," drawing 4 per cent interest, payable quarterly. The annual interest is \$200, and is loaned to students on their note, without interest.

Twenty-six students have received aid from this fund. Thirteen of the twenty-six students have paid their loans in full.

FINANCIAL STATEMENT FOR THE YEAR ENDING JULY 31, 1909.**RECEIPTS.**

Balance on hand August 1, 1908.....		\$744.01
To M. A. Weist, in full of loan.....	\$75.00	
To O. C. Oberg, in full of loan.....	100.00	
To interest for the year ending July 31, 1909.....	200.00	
	<hr/>	375.00
Total receipts		<hr/> \$1,119.01

DISBURSEMENTS.

By loan to student.....	75.00
Balance on hand July 31, 1909.....	<hr/> \$1,044.01

FINANCIAL STATEMENT FOR THE YEAR ENDING JULY 31, 1910.**RECEIPTS.**

Balance on hand August 1, 1909.....		\$1,044.01
To B. F. Nacht on account.....	\$80.00	
To W. A. Weist, in full of loan.....	50.00	
To interest for the year 1909-10.....	200.00	
	<hr/>	330.00
Total receipts		<hr/> \$1,374.01

DISBURSEMENTS.

Mar. 28. By loans to students.....	\$225.00	
April 4. By loans to students.....	150.00	
April 7. By loans to students.....	150.00	
June 13. By loans to students.....	100.00	
	<hr/>	625.00
Balance on hand July 31, 1910.....		<hr/> \$749.01

LUDDEN TRUST FUND.

This fund of \$10,000 is the gift of the Hon. John D. Ludden of St. Paul, to the University of Minnesota, the income of which was placed at the disposal of the Board of Regents, to aid worthy students of either sex, belonging to the School of Agriculture. The fund is invested in Northern Pacific Prior Lien Bonds, drawing 4 per cent interest, payable quarterly. The annual interest is \$400. Forty students have received aid from this fund.

Financial statement for the year ending July 31, 1909.

RECEIPTS.

Balance on hand August 1, 1908.....	\$1,176.25
To interest on bonds for the year 1908-09.....	400.00
Total receipts	<hr/> \$1,576.25

DISBURSEMENTS.

1908.			
Oct. 7.	By loans to students.....	\$240.00	
Dec. 9.	By loans to students.....	50.00	
1909.			
Jan. 22.	By loans to students.....	100.00	
Feb. 24.	By loans to students.....	115.00	
Mar. 22.	By loans to students.....	25.00	
May 6.	By loans to students.....	100.00	
			630.00
	Balance on hand July 31, 1909.....		\$946.25

FINANCIAL STATEMENT FOR THE YEAR ENDING JULY 31, 1910.

RECEIPTS.

Balance on hand August 1, 1909.....		\$946.25
To Albert Nortling, interest on loan.....	\$6.00	
To J. A. Vyesee, balance students' fund.....	89.55	
To J. E. Ovenlie, in full of note.....	25.00	
To Hiram Pratt, in full of loan.....	70.00	
To E. A. Raymond, in full of note.....	51.67	
To interest on bonds for the year 1909-10.....	400.00	
		642.22
Total receipts		\$1,588.47

DISBURSEMENTS.

1909.			
Oct. 26.	By loans to students.....	\$250.00	
Dec. 18.	By loans to students.....	115.00	
1910.			
Feb. 23.	By loans to students.....	200.00	
Mar. 2.	By loans to students.....	155.00	
Mar. 3.	By loans to students.....	165.00	
Mar. 4.	By loans to students.....	85.00	
Mar. 7.	By loans to students.....	80.00	
Feb. 25.	By loans to students.....	50.00	
Feb. 28.	By loans to students.....	50.00	
June 7.	By loans to students.....	70.00	
			1,220.00
	Balance on hand July 31, 1910.....		\$368.47

THE ALBERT HOWARD SCHOLARSHIP FUND.

The "Albert Howard Scholarship Fund" of \$4,066.81 is the gift of Mr. James L. Howard, of St. Johnsbury, Vt., and was left to the University of Minnesota to establish a scholarship to be known as the "Albert Howard Scholarship." This scholarship is awarded by the executive committee upon the recommendation of the general faculty.

This fund is invested in Colorado Irrigation Bonds, drawing six per cent and purchased at 98c on the dollar. The bonds cost \$3,920.00. The balance has been placed in the Swedish American bank, where it will remain until it shall amount to \$100, when it will be invested.

THE ROLLIN E. CUTTS PRIZE IN SURGERY.

Dr. Mary E. Smith Cutts, 1891 Medical, has given to the university a memorial to her husband, Dr. Rollin E. Cutts, 1891 Medical, the sum of \$500.00, the income of which is to be awarded in the form of a gold medal to that member of the senior class of the College of Medicine and Surgery who presents the best thesis showing original work upon a surgical subject.

This fund is invested in a farm mortgage, on the SE $\frac{1}{4}$ of sec. 20, T. 14; R. 43 (160 acres), Becker county, owned by Mrs. Nellie Bronseth, and draws five per cent interest. Mortgage is due December 10, 1910.

GIDEON MEMORIAL FUND.

This fund of \$500 was given by the State Horticultural Society, for a memorial to Peter M. Gideon, who originated the "Wealthy" apple. This fund was placed in the hands of the Board of Regents, who have invested it in "Town of Grand Rapids," drawing five per cent, and due in 1922.

The income from this fund is awarded as prizes for the encouragement of work in the horticultural department of the College of Agriculture.

SHEVLIN FELLOWSHIPS.

At a meeting of the Board of Regents of the University of Minnesota, held May 20, 1910, a communication from the Hon. Thomas H. Shevlin, dated May 17, 1910, stating that \$40,000 worth of 5 per cent Shevlin-Matthews Lumber Co. timber bonds had been transferred to the Board of Regents for fellowships, was received. Mr. Shevlin suggested the following fellowships: Agriculture, Chemistry, Medicine and Academic. The communication was referred to the president of the Board of Regents and to the president of the university.

At a meeting of the regents held on September 22, the committee to whom was referred the communication of Mr. Shevlin reported: That the Shevlin fellowships be graduate fellowships and that they be placed under the jurisdiction of the graduate school and be awarded as follows: One in medicine, one in chemistry, one in agriculture and one in liberal arts, each of \$10,000.

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The University of Minnesota

SEVENTEENTH BIENNIAL REPORT OF THE BOARD OF REGENTS



THE LIBRARY OF THE
MAY 10 1931
UNIVERSITY OF ILLINOIS

FISCAL YEARS ENDING
JULY 31, 1911, 1912

BULLETIN OF THE UNIVERSITY OF MINNESOTA
VOL. XVI, NO. 1. JANUARY 1913

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LETTER OF TRANSMITTAL

To His Excellency, Adolph O. Eberhart, Governor of the State of Minnesota:

SIR: The Board of Regents of the University of Minnesota herewith submits to you as its report of the status of the University and of its activities during the biennial period, the exhaustive report of the President of the University to the Board covering the period. No analysis by the Board of the facts presented could lead to other conclusions than those reached by the President. The recommendations expressed by him have been formulated in conference with the Board.

The period covered by the report marks a most important epoch in the life of the University. At the beginning of the last fiscal year President Emeritus Cyrus Northrop, after a long period of service covering more than a quarter of a century, retired from the presidency of the institution and was succeeded by the present incumbent.

The phenomenal growth of the institution during the incumbency of President Northrop is without parallel. The generous support of the people of the State, the contribution of individual citizens of their services and means, among whom the names of Pillsbury, Gilfillan, Shevlin, Elliot, and Ludden are entitled to especial recognition and mention, the patient labors of a self-sacrificing faculty, meagerly paid, were all contributing factors to this growth. But those who followed the work of the University from day to day realize more fully, perhaps, than the general public that the predominant factor in the growth and progress of the institution was the genial personality, the tact, the zeal, the wisdom, and the unbounded optimism of the President. His work is a heritage of all the people of the State and will always be lovingly remembered.

In the choice of his successor the Board exercised the care and solicitude that the importance of the work called for. It selected Dean George E. Vincent, of the University of Chicago. President Vincent came to the institution in the prime of his

manhood, with broad experience and a well-earned reputation for scholarship and executive efficiency. The Board believes that its choice merits and has the approval of the people of the State. The many projects furthered and inaugurated by the President for co-ordinating the work of the University in all its branches with the life and aspirations of the people has the approval of the Board and has been cordially received by the public.

He conceives the future of the University, not only as a retreat for individual attainment, but as a center radiating culture, knowledge, and efficiency throughout the State. This ideal of a State University is in harmony with the spirit of the times and will commend itself to the enlightened sentiment of our people. To realize these aims adequate support for the highest efficiency within the institution is indispensable. The Board has reduced all requests for new construction to a minimum, but it asks a substantial increase in the appropriation for support. The aggregate estimates, however, are less than the appropriations of two years ago by more than a half million dollars.

The Board is pleased to report that under the new business methods and systems of accounting, inaugurated under the direction of President Vincent, the business of the University is greatly facilitated and the Board is better able to know the exact condition of its resources at all times. Many economies have been made possible, the supervision by the Public Examiner's Office and the checking by the State Auditor are simplified and effective.

The University, like our State, is entering upon an era probably less marked in growth of population than formerly, but demanding greater thoroughness and higher efficiency in its activities to meet the requirements of a more complex and advanced civilization. Assuming that the University will continue to receive that generous statesmanlike treatment accorded it by the Legislature in the past, the Board looks forward to a period in its life under President Vincent that will be responsive to the new demands and as marked for usefulness, standing, and efficiency as was the incumbency of his predecessor for growth and development.

JOHN LIND, *President*

December 27, 1912.

NEEDS FOR THE BIENNIUM, 1913-1915

In formulating their requests in behalf of the University for the biennium beginning August 1, 1913, the Regents have been guided by the following principles:

A reduction of the aggregate amount requested.—The table which follows shows that the total asked for is ninety per cent of the sum granted by the last Legislature. The Regents realize that the University is only one of many institutions and that it can not expect to develop at the expense of these. The requests have therefore been carefully considered and reduced to what seems to the Regents a reasonable minimum. They believe that they can present convincing arguments for every item.

Men given precedence over buildings.—The building program has been reduced and the stress laid on funds for increasing the number of the teaching staff and paying better salaries to many able men and women now in the service of the University. No general percentage increase in salary, however, is contemplated. Efficiency and value to the University will be the determining considerations.

Widening the scope of Extension Work.—A substantial increase is requested both for agricultural extension and for the diffusion throughout the State of many other kinds of educational influence. The University desires to go to citizens in their homes and communities. The demand for this service is widespread and often insistent. This can not be met with the funds at present available.

Due regard for agricultural interests.—Of the total amount requested 35 per cent is desired for agricultural purposes. To this should be added the \$75,000 received annually from the Federal Government. Still other grants from the United States Treasury are likely to be made by Congress. The increase for extension will be largely devoted to demonstration farm and county-supervision work. The most valuable extension work is that which sends the expert adviser to confer with the farmer on his own farm.

TABLE I. SUMMARY OF THE UNIVERSITY'S NEEDS FOR THE BIENNIUM
ENDING JULY 31, 1915, COMPARED WITH THE APPROPRIATIONS FOR
THE BIENNIUM ENDING JULY 31, 1913

Purpose	1911-1913	1913-1915
<i>General Deficiency Appropriation</i>	\$ 130,000	
Made necessary by rapid increase of students and other demands upon the institution. (See Sixteenth Biennial Report, pp. 5 and 6.)		
<i>Deficiency for Hospital Support</i>	33,700	
To cover deficiency in support and to reimburse general funds amount advanced.		
<i>23-100 Mill Revenue Tax</i>	562,000	\$ 572,500
Estimated for both biennial periods by the State Auditor.		
<i>For Maintenance</i>	650,000	966,000
A general maintenance fund supplementing other revenues and applicable to any University purpose. Needed for increasing the number of the teaching staff and increases of salary.		
<i>Fuel</i> (University including University Farm).	70,000	120,000
The fuel for the single year ending July 31, 1912, cost \$72,728 or more than was allowed for the biennial period. Thus a heavy charge for heating fell upon the general funds. The new heating plants will economize fuel.		
<i>Special University Maintenance Appropriations</i>	381,200	462,000
For Law and General Libraries, repairs, Hospital support, research and publications, books and apparatus, University Extension, Mines support and Experiment Station, Geological Survey, see Table II.		
<i>Special Agricultural Maintenance Appropriations</i>	227,000	326,000
Agricultural Extension, repairs, library, and many groups of experimental projects, see Table III.		
<i>Buildings and Equipment</i>	1,761,980	1,089,950
For detailed and annotated list of structures desired, equipment required, etc., see Table IV.		
<i>Agricultural Schools and Sub-Stations</i>	482,290	333,500
For a detailed statement of building and maintenance funds requested, see Table V.		
Total.....	\$4,298,170	\$3,869,950

TABLE II. SPECIAL UNIVERSITY MAINTENANCE APPROPRIATIONS

Purpose	Granted 1911-1913	Requested 1913-1915
<i>Law Library</i>	\$ 10,000	\$ 10,000
<i>General Library</i>	20,000	40,000
The University Library falls far short of the needs of a great institution; the increase of volumes is a pressing need.		
<i>General Repairs for the University</i>	50,000	50,000
Needed for the proper maintenance of more than thirty buildings.		
<i>The University Hospital Support</i>	159,200	160,000
This hospital is not only an educational necessity, but renders an important public service to the indigent poor of the State.		
<i>Research and Publication</i>	20,000	20,000
The beginning of aid to scholarly investigation has justified itself and this subsidy should be continued.		
<i>Scientific Books and Apparatus</i>	50,000	50,000
Almost all departments of the institution are in need of more adequate and modern equipment.		
<i>University Extension</i>	20,000	80,000
It is planned largely to widen the scope and diffuse the influence of Extension Work in all parts of the State. Increased funds will be needed.		
<i>Mines Experiment Station</i>	20,000	20,000
It is proposed to maintain on its present basis this important service to the State.		
<i>Mines Standing Appropriation</i>	19,000	19,000
<i>Geological Survey</i>	13,000	13,000
The work of surveying the economic resources of the State is of great practical importance and of scientific value.		
Total.....	\$381,200	\$462,000

TABLE III. SPECIAL AGRICULTURAL MAINTENANCE APPROPRIATION

Purpose	Granted 1911-1913	Requested 1913-1915
<i>Repairs and Alterations</i>	\$20,000	\$35,000
This includes general repairs and alterations of twenty-nine buildings, many of them old.		

TABLE III—*Continued*

Purpose	Granted 1911-1913	Requested 1913-1915
<i>Campus Maintenance</i>	\$ 5,000	\$ 6,000
<i>Library</i> The library is inadequate for the needs of the Station, College, and School.	12,000	18,000
<i>Agricultural Extension</i> This includes dairy extension and premiums. There is insistent demand for enlargement of this work.	90,000	130,000
<i>Forestry Experiments and Support</i> A small increase is desired for enlargement of experimental forestry work.	26,000	31,000
<i>General Experiment Station Investigations and Research</i> These include studies of noxious weeds, plant diseases, farm management, field crops, tobacco, agricultural engineering, bacteriology, grain and flour, soils, fruit farm, horticultural crops, animal nutrition, live stock, poultry, insects, hog cholera, etc., etc.	74,000	106,000
Total.....	\$227,000	\$326,000

TABLE IV. BUILDING AND EQUIPMENT APPROPRIATIONS

Purpose	Amount Requested
<i>Addition to Anatomy Building</i> (with equipment)..... The Pathology Building is needed by the College of Education, and therefore to house the State Board of Health, and the departments of Pathology and Bacteriology, an addition is planned to the Anatomy Building.	\$143,000
<i>Remodeling and Equipping Pathology Building</i> To house the College of Education and the University High School, the observation and practice school of the College.	37,500
<i>Remodeling the Chemistry Building</i> This appropriation is asked in order to adapt the building to the use of men students as Shevlin Hall was erected for the use of the women students.	17,500

TABLE IV—Continued

Purpose	Amount Requested
<i>Sprinkler System and Wiring</i>	\$25,000
For better fire protection it is proposed to install a sprinkler system and to place electric wires in conduits in several buildings, which are not fire-proof.	
<i>Home Economics Building and Equipment</i>	75,000
To be located at the College of Agriculture for the use of all the women of the University, including the girl students in the School of Agriculture.	
<i>Addition to Heating Plant at the University Farm</i>	26,000
To provide heat and light for the present buildings, for those under construction, and for a margin of safety in extreme weather.	
<i>Gymnasium and Drill Hall at the University Farm</i>	90,000
There is at present no provision of this kind for the thirteen hundred young men and women on the Farm Campus.	
<i>Trolley Connection between the Main Campus and the University Farm</i>	60,000
A spur from the Como-Harriet line will carry students to or from in ten minutes. Thus much duplication of buildings and instruction, which would otherwise be necessary, can be avoided. The saving in the delivery of coal and building materials will in a few years equal the cost of construction. The Minneapolis Street Railway Company is ready to enter into a contract for operation on terms advantageous to the University.	
<i>Sundry Buildings, etc., at the University Farm.</i>	103,850
Icehouse and Cold Storage for Dining Room.....	\$20,000
Greenhouse.....	22,000
Veterinary Pathology Plant... \$16,750	
Minor Changes in Vet. Bldg... 1,500	18,250
Addition to Horse Barn.....	5,000
New Poultry House.....	4,000
Alterations to Chemistry Building.....	3,100
Addition to Dairy Hall.....	2,000
Plant Pathology Field House.....	2,000
Alterations in Dining Hall Basement...	1,500
Grading the Campus, New Fences, etc...	15,000
Purchases of Live Stock.....	8,000
Storage Cellar.....	500
Renewal of Boys' Dormitory Equipment	2,500

TABLE IV—*Continued*

Purpose	Amount Requested
<i>Timber Purchase at Cloquet</i>	\$8,600
The owners hold at the original purchase price standing timber three times this value and are ready to sell it to the State for the amount they paid.	
<i>Electrical Engineering Equipment with Repairs of Building</i>	20,000
The basement and attic of present building must be made available. The rapid advance in electrical science calls for modern equipment. Apparatus for electric lighting, electric railway motors and controllers, direct and alternating current motors and generators, telephonic and radio-telegraphic apparatus are especially needed.	
<i>Equipment for Experimental Laboratory in College of Engineering</i>	7,000
To include hydraulic installations with centrifugal pumps, piping for water, air, and steam; steam, gas, gasoline, and oil engines, air compressor, experimental steam turbine, road metals testing apparatus, etc.	
<i>Equipment for Machine and Wood Working Shops in the College of Engineering</i>	10,000
To supplement present equipment by modern effective metal and wood-working machinery such as lathes, boring and milling machines, drills, annealing furnace, etc.	
<i>Addition to Botany Greenhouse</i>	3,000
More space is needed for laboratory for students and for research work.	
<i>Equipment for College of Dentistry</i>	2,500
For additional microscopes, surgical instruments, sterilizers, pathological equipment, projection apparatus, etc.	
<i>Equipment for School of Mines</i>	6,000
To replace outworn ore-testing machinery and to provide equipment for metallography and electro-metallurgy, e. g., microscopes, electric furnaces, pyrometers, etc.	
<i>Equipment for the College of Science, Literature, and the Arts</i>	10,000
To replace and supplement laboratory equipment, especially in physics and animal biology and to supply furniture and fixtures in the largest college of the University.	

TABLE IV—Continued

Purpose	Amount Requested
<i>Biological Building</i>	\$200,000
The Regents have long recognized the great need for this building. The present laboratory facilities are entirely inadequate and even unsanitary in view of the large number of students pursuing these courses, which are required in the College of Science, Literature, and the Arts, Agriculture, Medicine, etc.	
<i>University Hospital Service Building and Equipment</i>	50,000
To afford space for the hospital laundry, store-rooms, general kitchen, dining rooms for officers, nurses, and help and quarters for the domestic help. The space thus released in the hospital will accommodate thirty additional beds for patients.	
<i>Women's Gymnasium and Equipment</i>	125,000
Twelve hundred women on the main campus are practically deprived of gymnasium facilities at present owing largely to the increased use of the Armory for Military Instruction and Drill.	
<i>To Redeem Outstanding Certificates of Indebtedness for Campus Extension</i>	70,000
This amount has already been levied and no further legislative action is necessary.	
Total.....	<hr/> \$1,089,950

TABLE V. MAINTENANCE AND BUILDING APPROPRIATIONS FOR AGRICULTURAL SUB-STATIONS AND SCHOOLS

Purpose	Amount Requested
NORTHWEST SCHOOL AND EXPERIMENT STATION, CROOKSTON	\$200,500
<i>General Maintenance School and Station</i> ...	\$79,800
The enlargement of the School and increase in Station work demand additional help. Certain increases in salary will be necessary.	
<i>Repairs and Alterations</i>	10,000
A number of the older buildings need repairing and altering to fit them for present needs.	

TABLE V—Continued

Purpose	Amount Requested
<i>Central Heating Plant and Water Softener..</i>	\$40,000
At the present time all buildings are heated by separate plants, three of which are in bad condition and criticized by underwriters.	
<i>Dormitory for Boys.....</i>	40,000
At the present time there is only one dormitory for boys and this is badly overcrowded.	
<i>Drainage, Sewage Disposal, and Greenhouse.....</i>	19,700
The sanitary condition has been criticized by the State Board of Health. The overflow from the various septic tanks now empties into a county drainage ditch which in warm weather becomes offensive. The greenhouse is needed, but will not be built unless sufficient balance remains after drainage and sewage disposal have been provided for.	
<i>Grain Storage and Cleaning.....</i>	6,000
Considerable quantities of seed grain are produced on the farm, but at present no facilities for storage and cleaning are provided.	
<i>Machine Shed.....</i>	2,000
<i>Swine Barn Addition.....</i>	1,000
<i>Grading Farm and School Grounds.....</i>	2,000
NORTH CENTRAL EXPERIMENT STATION, GRAND RAPIDS	
<i>General Maintenance.....</i>	\$14,000
WEST CENTRAL SCHOOL AND EXPERIMENT STATION, MORRIS.....	68,000
<i>General Maintenance.....</i>	50,000
The 1911-12 budget includes a deficit appropriation. The regular maintenance was \$39,500. The increase is due to the enlargement of the School and the development of the Station.	
<i>Alterations, Repairs, and Equipment.....</i>	18,000
This Station has a number of old buildings taken over from the Federal Government. These are being altered to meet the needs of the School and Station.	

TABLE V—Continued

Purpose	Amount Requested
NORTHEAST DEMONSTRATION FARM AND EXPERIMENT STATION, DULUTH.....	\$24,200
<i>General Maintenance</i>	\$12,200
<i>Clearing Land</i>	3,000
<i>Live Stock</i>	2,000
<i>Institute Hall</i>	7,000
Purchase of land, maintenance for 1912 and 1913, and certain buildings were provided by special appropriation, Chapter 142, General Laws 1911.	
SOUTHEAST DEMONSTRATION FARM AND EXPERIMENT STATION, WASECA.....	26,800
<i>General Maintenance</i>	7,800
<i>Feeding Sheds and Yards</i>	2,000
<i>Superintendent's House</i>	3,500
<i>Alterations and Remodeling Old Buildings</i> ..	5,000
<i>Drainage</i>	1,500
<i>Water System</i>	500
<i>Fencing</i>	1,000
<i>Live Stock</i>	5,000
<i>Seeds and Plants</i>	500
Purchase of land and maintenance 1912-13 provided from special appropriation, Chapter 142, General Laws of 1911.	
Total.....	\$333,500

THE PRESIDENT'S REPORT

To the President of the Board of Regents of the University of Minnesota:

SIR: I herewith submit my report for the biennium ending July 31, 1912.

Mention of changes in the personnel of the staff is limited to persons of professorial rank.

Resignations.—Professor Ada Comstock, Dean of Women, resigned to accept the Deanship of Smith College. Professor Robert S. Kolliner withdrew from the Law School on account of ill health. Professor Willis M. West, head of the Department of History, retired to give his time to writing. Assistant Professor John Lee Coulter, on leave of absence from the Department of Economics and Political Science, withdrew to continue in the service of the Bureau of Labor in Washington. Assistant Professor William H. Tomhave accepted the headship of the Department of Animal Husbandry in Pennsylvania State College. Assistant Professor George Porter Paine withdrew from the Department of Mathematics to fill a professorship in Middlebury College, Vermont. Assistant Professor Robert B. Gibson resigned from the Department of Physiologic Chemistry. Assistant Professor Ralph H. Hess, Assistant Professor Edward K. Slater, Clinical Professor Everton J. Abbott also resigned during the biennium.

Retirements.—The following members of the Faculty have been retired and are in receipt of allowances from the Carnegie Foundation for the Advancement of Teaching: President Emeritus Cyrus Northrop; Assistant Professor Matilda J. C. Wilkin as Assistant Professor of German; Professor Henry Turner Eddy as Dean of the Graduate School and Professor of Mathematics and Mechanics, Emeritus; Professor Adam C. Hickman as Professor of Law in the Law School; Professor Arthur E. Haynes as Professor of Mathematics in the College of Engineering.

Leaves of absence.—Professor John C. Hutchinson and Professor George D. Shepardson were absent on sabbatical leave with half pay during the year 1911-12. Professor John H. Gray, Head of the Department of Economics and Political Science, was granted leave of absence without salary for the second semester to conduct an investigation under the auspices of the National Civic Federation. Professor Edward G. Quigley, of the College of Education, was granted leave of absence without salary for the year. Assistant Professor Josephine E. Tilden, of the Department of Botany, was assigned duty on half salary in connection with an expedition to Tahiti and New Zealand. The expenses for the trip were provided by friends of the University interested in botanical research. Professor Carl Schlenker, of the Department of German, was granted sabbatical leave for one year with half salary.



EXPERIMENTAL LABORATORY
COLLEGE OF ENGINEERING AND MECHANIC ARTS

Appointments.—The following appointments to positions of professorial rank were made during the biennium: George E. Vincent (from the University of Chicago) as President, C. G. Selvig as Superintendent of the Northwest Station and School of Agriculture, George H. Hayes as Comptroller, William R. Vance (from Yale Law School) as Professor of Law and Dean of the Law School, W. H. Emmons (from the University of Chicago) as Head of the Department of Geology and Director

of the Geological Survey, Edward S. Thurston (from the University of Illinois) as Professor of Law, Howard R. Smith (from the University of Nebraska) as Professor of Animal Husbandry, Margaret Sweeney (from Adelphi College, Brooklyn, N. Y.) as Professor of Rhetoric and Dean of Women, Ashley V. Storm (from the Iowa State College of Agriculture) as Chief of the Division of Agricultural Education, Edwin H. Hewitt, as Professorial Lecturer in Architecture, Lieutenant James B. Woolnough (U. S. A.) as Professor of Military Science, J. O. Rankin (from U. S. Department of Agriculture) as Editor of Agricultural Publications, J. Anna Norris (from the University of Chicago) as Director of Health for Women, John Spencer as Assistant Professor of Veterinary Medicine, Richard E. Scammon as Assistant Professor of Anatomy, O. M. Olson as Assistant Professor in charge of Demonstration Farms, Thomas G. Paterson (from Kansas State Agricultural College) as Assistant Professor of Animal Husbandry, Louis D. H. Weld (from New York University) as Assistant Professor of Extension Work in Economics.

STATISTICS OF REGISTRATION, ETC.

Collegiate students.—Table I shows the registration, for each of the years 1910-11 and 1911-12, of all students of collegiate grade, i. e., those who are pursuing courses based upon a full four-year high school preparation. The net loss of 54 for the year 1911-12 is due primarily to the full effect of substituting a five-year for a four-year course in Engineering and to the enforcing of the two-year college prerequisite and the drastic reorganization of instruction in the Law School. In so far as the decrease reflects a higher standard of educational efficiency it is to be heartily welcomed. The significant gains are in the College of Science, Literature, and the Arts, and in the College of Dentistry. The latter has been compelled to fix a limit to its number of students. An increase of 10 per cent in the enrollment of graduate students is gratifying.

Sub-collegiate students.—Table II exhibits the registration figures for sub-collegiate students. The large gain in totals is due to the rapid expansion in the summer school for grade

teachers, and the inauguration of a popular junior short course. Too much stress should not be laid upon these fluctuations in short course attendance. The registration in the regular six months' Schools of Agriculture, it will be noted, is the same for both years. Table III shows comparative figures for extension students. The evening classes in Minneapolis and St. Paul are more than holding their own. Correspondence teaching has had little opportunity and can not flourish until a staff and facilities are provided. Obviously the possibilities of extension work—except in Agriculture—have not as yet been grasped.

The general summary.—Table IV should not be given much weight. The totals are misleading. Groups of students so diverse in preparation, educational aim, and length of residence in the University can not be added into totals that have much meaning. For example, the total gain of 923 is practically in sub-collegiate, short-course students. The total to be kept in mind in comparing the University with other institutions is 4,057, the number of collegiate students registered in 1911-12.

Percentage of women students.—In the College of Science, Literature, and the Arts the percentage of women has risen from 56.2 to 57.7, and in the whole body of collegiate students from 35.5 to 38.2. The increase of the percentage of women in the sub-collegiate courses from 23.2 to 50.3 is due to the large increase in the attendance of teachers in the Summer School.

Degrees conferred.—In Table V appear lists of degrees con-

TABLE I. COLLEGIATE STUDENTS BY COLLEGES AND SCHOOLS, 1910-1912

COLLEGE OR SCHOOL	Year 1910-1911			Year 1911-1912			GAIN	LOSS
	Men	Women	Total	Men	Women	Total		
College of Science, Literature, and the Arts.....	710	911	1,621	742	1,016	1,758	137	....
College of Engineering and the Mechanic Arts.....	420	....	420	377	....	377	....	43
College of Agriculture.....	230	204	434	205	212	417	17	....
Law School.....	437	5	442	319	6	325	....	117
College of Medicine and Surgery.....	167	10	177	178	9	187	10	....
School for Nurses.....	....	17	17	....	22	22	5	....
College of Dentistry.....	206	....	206	244	3	247	41	....
College of Pharmacy.....	81	9	90	75	2	77	....	13
School of Mines.....	105	....	105	98	....	98	....	7
School of Chemistry.....	72	1	73	78	3	81	8	....
College of Education.....	33	79	112	14	89	103	....	9
Graduate School.....	94	50	144	101	58	159	15	....
Summer Session.....	188	269	457	227	250	477	20	....
Summer Session (Agriculture).....	....	....	....	25	45	70	70	....
Grand Total of Collegiate Students (less duplicates).....	2,642	1,469	4,111	2,470	1,587	4,057	....	54

ferred in all colleges and schools for each of the years 1910-11 and 1911-12. In the College of Science, Literature, and the Arts the loss in the B.S. is a little more than made up by the gain in the B.A. Engineering shows the readjustment to the new degree B.S. (in Engineering). The heavy loss in Law reflects the changes which have been going on in that School. The sharp rise in Medicine and Surgery shows that this College has readjusted itself to its new standards. The increase in Dentistry discloses the enlarged demands which are being made upon that College.

TABLE II. SUB-COLLEGIATE STUDENTS, 1910-1912

SCHOOL	YEAR 1910-1911			YEAR 1911-1912			GAIN	LOSS
	Men	Women	Total	Men	Women	Total		
CENTRAL SCHOOL OF AGRICULTURE:								
Intermediate year.....	8	3	11	18	7	25	....	....
Class A.....	82	49	131	106	42	148	....	....
Class B.....	147	74	221	227	98	325	....	....
Class C.....	374	150	524	247	135	382	....	....
Total.....	611	276	887	598	282	880	....	7
N. W. SCHOOL OF AGRICULTURE:								
Students.....	104	35	139	122	37	159	20	....
WEST CENTRAL SCHOOL OF AGRICULTURE:								
Students.....	79	26	105	67	24	91	....	14
Total, Schools.....	794	337	1,131	787	343	1,130	....	....
SHORT COURSES:								
Traction Engineering..	145	....	145	38	....	38	....	107
Teachers' Summer School.....	15	23	38	51	838	889	851	....
Summer Forestry Course.....	4	14	18	....	....	....	....	18
Farmers' Short Course..	197	6	203	122	5	127	....	76
Junior Short Course....	....	....	....	203	107	310	310	....
Dairy School.....	100	....	100	96	....	96	....	4
School for Supervisors..	4	....	4	....	....	....	....	4
Total, Short Courses..	465	43	508	535	995	1530	....	....
Grand total, sub-collegiate students.	1,259	380	1,639	1,297	1,293	2,590	951	....

TABLE III. EXTENSION STUDENTS, 1910-1912

COURSES	YEAR 1910-1911			YEAR 1911-1912			GAIN	LOSS
	Men	Women	Total	Men	Women	Total		
Economics.....	215	263	13	276	61	....
Education (Correspondence).....	68	15	17	32	....	36
Economics (Correspondence).....	4	4	1	5	1	....
Total.....	287	282	31	313	26	....

TABLE IV. SUMMARY, 1910-1912

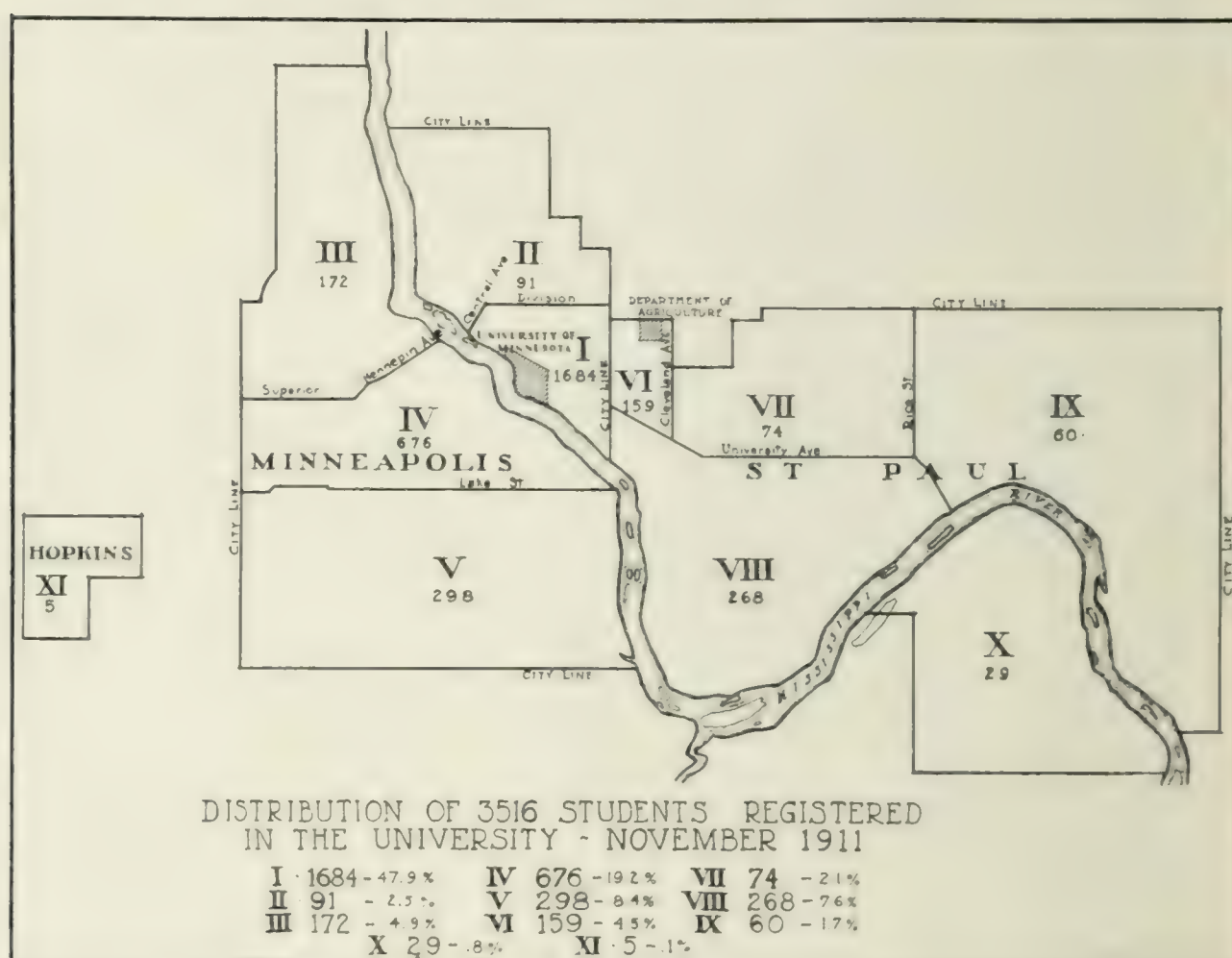
DIVISION	YEAR 1910-1911			YEAR 1911-1912			GAIN	LOSS
	Men	Women	Total	Men	Women	Total		
Collegiate Students.....	2,642	1,469	4,111	2,470	1,587	4,057	.....	54
Sub-collegiate Students...	1,259	380	1,639	1,297	1,293	2,590	951	.....
Extension Students.....	.....	.....	287	282	31	313	26	.....
Grand Total.....	.....	.....	6,037	4,049	2,911	6,960	923	.....

TABLE V. DEGREES CONFERRED, 1910-1912

COLLEGES AND DEGREES	YEAR 1910-1911			YEAR 1911-1912		
	Men	Women	Total	Men	Women	Total
SCIENCE, LITERATURE, AND THE ARTS:						
B.A.....	55	144	199	64	146	210
B.S.....	24	3	27	16	3	19
ENGINEERING:						
C.E.....	23	.....	23	5	.....	5
E.E.....	29	.....	29	6	.....	6
M.E.....	10	.....	10	5	.....	5
B.S. (Science and Tech.).....	2	.....	2	1	.....	1
B.S. (in Eng.).....	.....	.....	.....	49	.....	49
AGRICULTURE:						
B.S. (in Agri.).....	11	.....	11	8	.....	8
B.S. (in For.).....	17	.....	17	13	.....	13
B.S. (in Home Econ.).....	.....	9	9	.....	14	14
LAW:						
D.C.L.....	1	.....	1	.....	.....	.....
LL.M.....	10	.....	10	.....	.....	.....
LL.B.....	105	.....	105	54	1	55
MEDICINE AND SURGERY:						
M.D.....	19	.....	19	36	1	37
*Completed Course.....	6	.....	6	.....	.....	.....
Graduate in Nursing.....	.....	.....	.....	.....	7	7
DENTISTRY:						
D.D.S.....	49	.....	49	62	.....	62
PHARMACY:						
Phm.B.....	20	3	23	11	1	12
MINES:						
E.M.....	26	.....	26	23	.....	23
CHEMISTRY:						
B.S. (in Chem.).....	10	.....	10	13	.....	13
B.S. (in Chem. Eng.).....	3	.....	3	.....	.....	.....
Chem.E.....	.....	.....	.....	2	.....	2
B.S.....	.....	.....	.....	3	.....	3
EDUCATION:						
B.A. (in Educ.).....	7	27	34	2	39	41
GRADUATE:						
M.A.....	15	11	26	11	11	22
M.S.....	5	2	7	8	.....	8
Ph.D.....	1	.....	1	2	.....	2
M.F.....	.....	.....	.....	1	.....	1
Grand Total.....	448	199	647	395	223	618

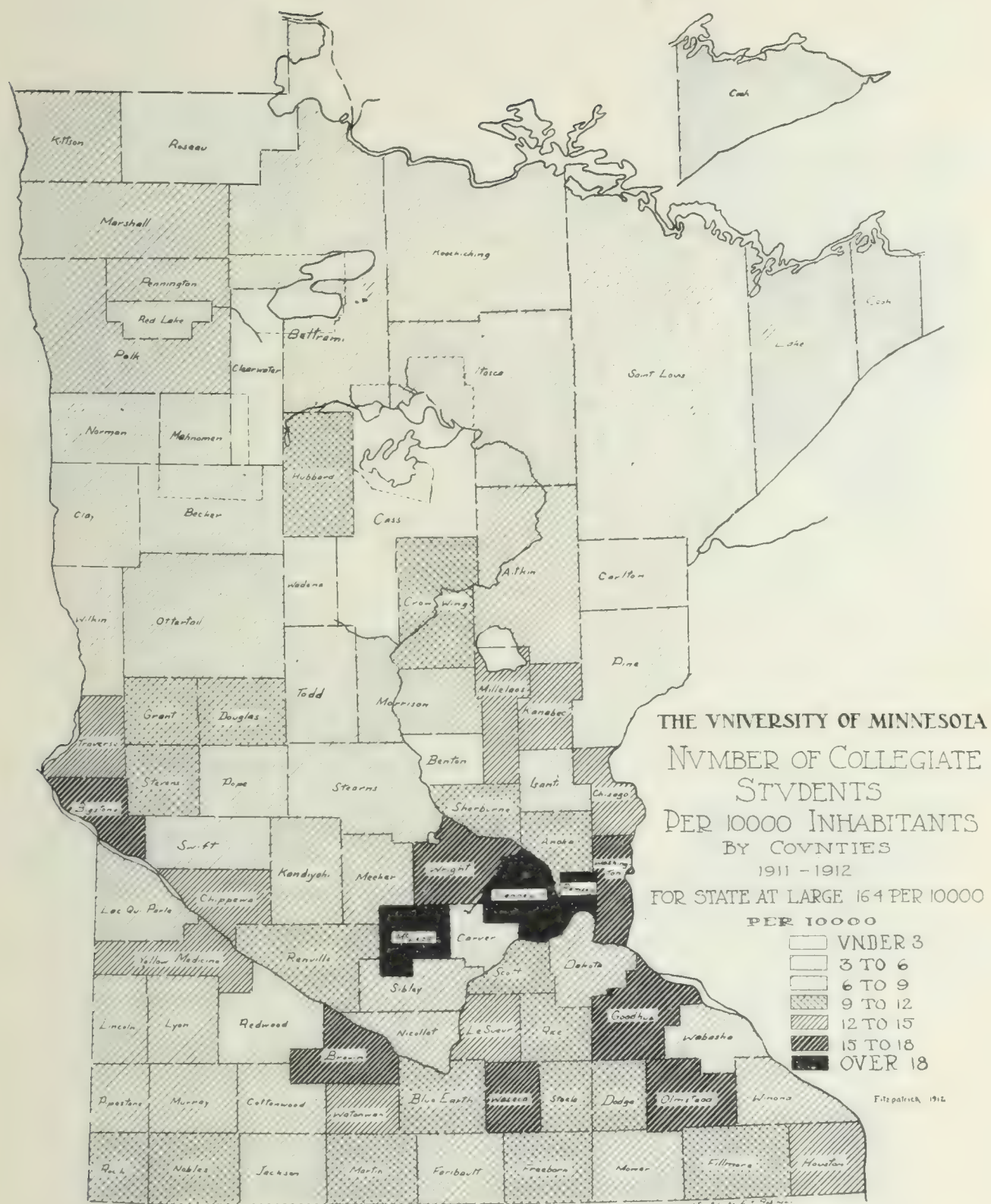
*Received degree from Hamline University.

Local distribution of students.—The accompanying outline map shows where the 3,516 collegiate students registered in November, 1911, were living. Of the 1,684 who were quartered in the district immediately surrounding the University Campus 332 men were lodged in fraternity houses, 62 women in sorority houses, and 90 women in Sanford Hall, the University dormitory for women. Of the remaining 1,200 students a good many undoubtedly were living at home or with relatives. It is safe

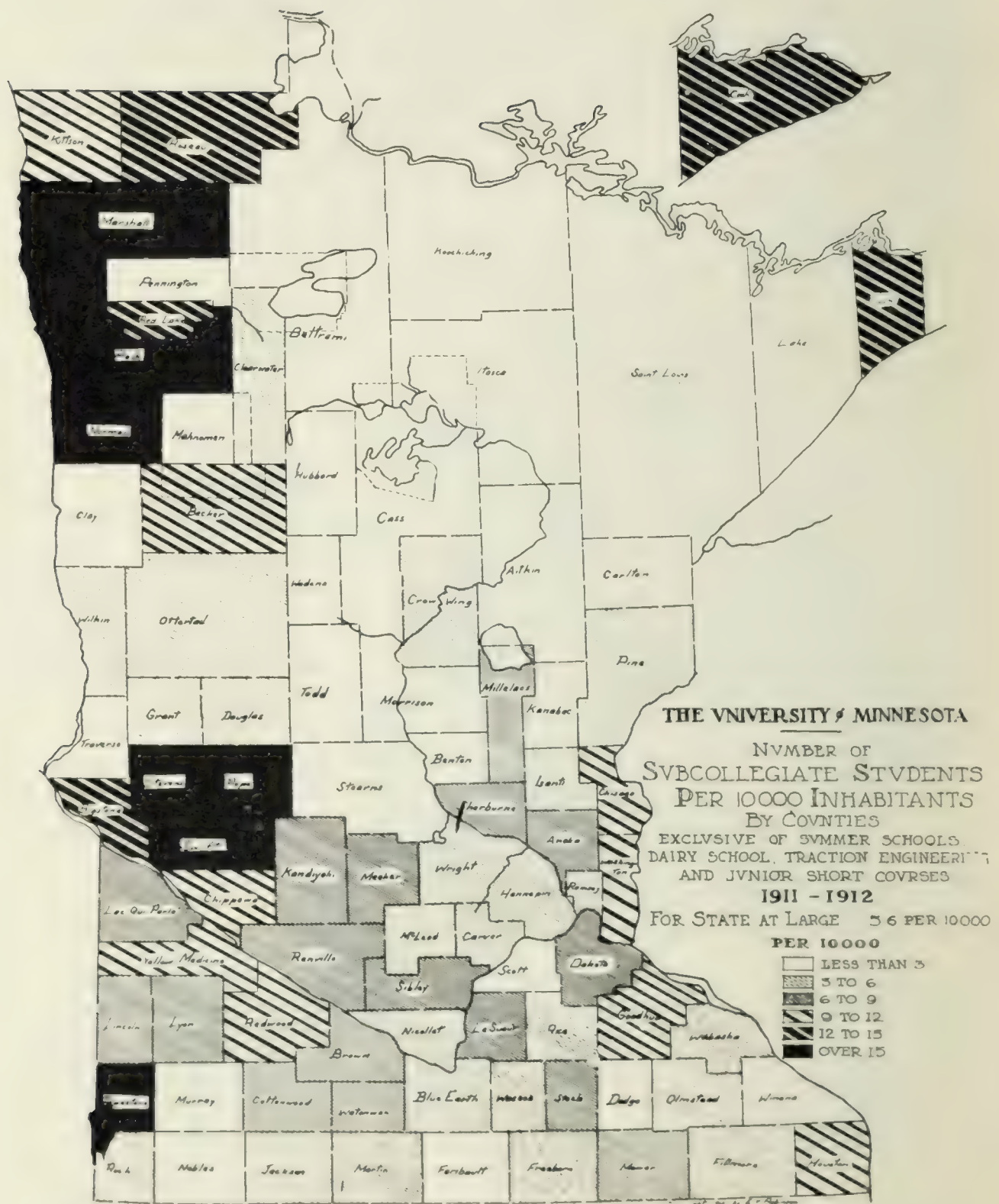


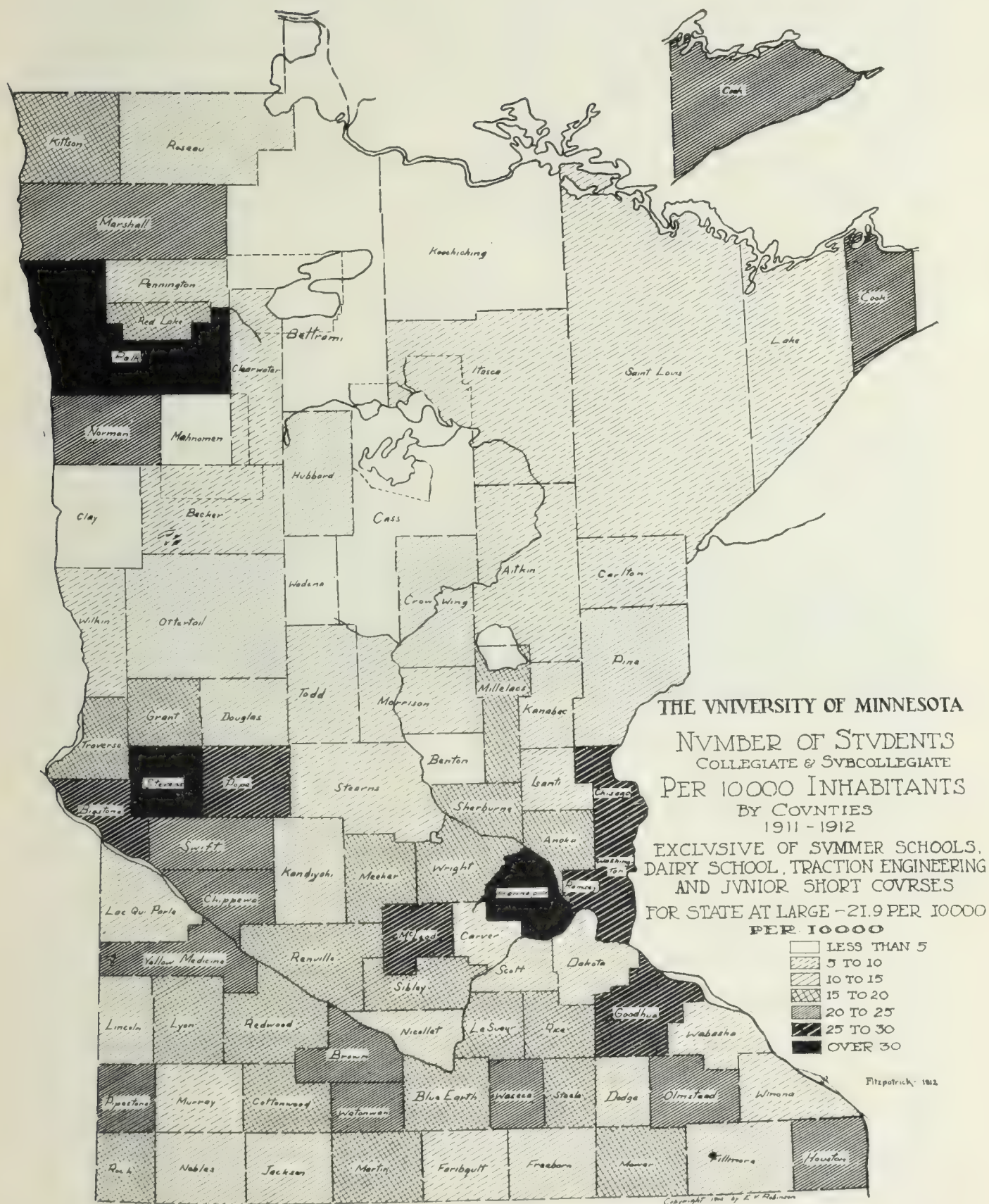
to conclude that between one thousand and eleven hundred students find their quarters in boarding houses or with private families in the southeast district. Of the students whose addresses fall in other sections of the two cities and their suburbs, the overwhelming number unquestionably live either with their parents or with relatives. A detailed study of the living conditions of the students at the University is being planned. Results will be published in the next report of the President.

Geographical distribution of students.—Of the collegiate students registered in the second year of the biennium 392, or 10.4 per cent, came from outside the State of Minnesota. Of all



NOTE.—This and the following maps were prepared under the direction of Assistant Professor Louis D. H. Weld by the statistical laboratory of the Department of Economics and Political Science. This laboratory has also rendered valuable service in preparing many of the statistical tables which appear in this report.





the collegiate students 55.9 per cent are registered from Hennepin and Ramsey counties. If students from outside the State be deducted, of the remainder 62.4 per cent come from these two counties. Of the sub-collegiate students, 22.4 per cent are registered from Hennepin and Ramsey counties. If the two groups be combined, the percentage from the two cities and vicinity is 47.8 per cent. About 26.8 per cent of the population of the State live in this region. A per capita distribution of students therefore would naturally call for at least the same percentage from these two counties. The fact that this percentage is markedly exceeded is to be attributed not only to the fact of proximity, but undoubtedly to a considerable degree to the immigration of families who come to Minneapolis and St. Paul for the specific purpose of entering their sons and daughters in the University. The apparent concentration is still further emphasized by the fact that more advanced students have a habit of registering from the cities even though their actual homes are in other parts of the State or in other states. The validity of this view is proved by the statistics of high school preparation. While 55.9 per cent of the students were registered from Minneapolis and St. Paul, only 40.8 per cent were prepared for the University in the High Schools and preparatory schools of these two cities. So, too, while 33.8 per cent report their residences from outside the cities, 39.2 per cent were prepared in outside High Schools. As to the 10.4 per cent who give their residences as outside of Minnesota, 17.9 per cent were actually prepared in secondary schools beyond the boundaries of the State. These figures make clear the tendency of families and individuals to move from the towns and villages of the State into the urban centers and then to give their addresses as permanent residents of Minneapolis and St. Paul. The significant fact is that Minneapolis and St. Paul High Schools prepare for the University only about 10 per cent more students than the per capita distribution of population would assign to them. The maps on pages 21, 22, and 23 show in graphic form the per capita distribution of students by counties.

FINANCES

The University living within its income. — The Regents have adopted the policy of keeping the expenditures of the institution

rigidly within the resources made available by the Legislature and by fees, etc. The rapid and unexpected growth of the institution in its early years often left no alternative between doing injustice to students and overrunning somewhat the income available. With the establishment of more stable and predictable conditions it is now expected that the University will soon be in a position where the policy of living within its income will be compatible with educational efficiency. In any event this policy will be maintained.

The budget system.—The Comptroller's report describes the budget system, by means of which the expenditures of the



MAIN ENGINEERING BUILDING
COLLEGE OF ENGINEERING AND MECHANIC ARTS

University are kept carefully within the limits decided upon at the outset of the fiscal year. The University budget is based upon these principles: 1, a conservative estimate of receipts; 2, a generous estimate of expenditures which must show 3, a safe margin of unassigned reserve; 4, the assigning to each college and department of the University of a specified sum for salaries, wages, equipment, supplies, etc.; 5, a requisition system by which no expenditure can be made until the Comptroller has certified that the funds are available and the Budget Committee or the Executive Committee or Board have approved the expenditure; 6, the scrutiny month by month of the balances in the

various budget accounts in order that the administration may know that the limits of the budget are not being exceeded.

A surplus for the year.—This budget system went into effect with the beginning of the fiscal year 1911-12. A number of uncertain factors made a policy of conservation necessary. The amount of outstanding obligations was unknown and a reserve to meet these had to be kept in hand. Estimates of receipts were reduced to a point of complete safety. In some instances the actual income considerably exceeded these original estimates. Departments were urged to purchase cautiously in order to save a margin for emergencies. As a consequence there was actually at the end of the year in addition to the regular budget reserve a considerable surplus. It should be remembered, however, that this was accomplished only at a sacrifice of educational efficiency. Additional instructors were sorely needed, more adequate equipment and supplies should have been purchased, but all these needs were subordinated to the policy of business-like administration. In the light of a year's experience with the new system it will be possible to plan more closely and to reduce somewhat the annual surplus. The time will never come, however, when it will not be necessary to carry over from year to year a reasonable reserve as a protection against unexpected and unpredictable demands.

Changes in the scale of tuition fees.—On the recommendation of the Deans the Regents adopted the following scale of tuition fees, to take effect with the academic year, beginning September 1, 1912:

TABLE VI. SCHEDULE OF STUDENT FEES

DIVISION	RESIDENT	NON-RESIDENT
College of Science, Literature, and the Arts.....	\$30.00	\$60.00
College of Engineering and the Mechanic Arts	50.00	50.00
College of Agriculture.....	30.00	60.00
Law School.....	65.00	65.00
College of Medicine and Surgery.....	150.00	150.00
College of Dentistry.....	150.00	150.00
College of Pharmacy:		
Two-year course.....	82.50	82.50
Three-year course.....	55.00	55.00
School of Mines.....	55.00	55.00
School of Chemistry.....	55.00	55.00
College of Education.....	30.00	60.00
The Graduate School.....	30.00	30.00

The effect of these fees is slightly to increase the revenue from the body of students as a whole. All laboratory fees which

heretofore have been listed as separate items are merged in inclusive fees. The double fees to non-residents have been dropped in the case of the College of Engineering and the School of Mines and the School of Chemistry. In most cases these fees are higher than those which prevail in the leading state institutions of the Middle West. It is a question whether in the attempt to secure additional revenue the principle of free higher education has not been overlooked. If so considerable an amount is to be levied upon students who attend the University, a serious question arises: "Are higher educational opportunities to be in any sense limited to the economically strong?" Much is to be said for a system by which fees are to be charged and then free scholarships provided for students who need assistance and who show that they deserve it. In the professional schools, especially, the relatively high fees ought to receive careful consideration. Here there is real need for free scholarships. Those who believe in higher education, can render no more valuable service than by co-operating with the State in endowing scholarships for promising but needy students.

Economy and Efficiency.—The Comptroller calls attention in his report to delays in the payment of bills, delays which prevent the University from securing the best prices and the advantage of cash discounts. He points out also that by providing a central storehouse the University could centralize a good many purchases which are now made in small lots but under another system might be aggregated into orders for large quantities. While marked progress has been made in securing business efficiency, there are many ways in which the business department will be able to effect further economies. Inquiries are being set on foot to determine how economically the buildings of the University are being used. Obviously all the available space should be in service for the maximum length of time each day or week. Another field for investigation is the duplication of equipment, machine shops, and various types of apparatus. It is not believed that up to the present time such duplication has taken place in any wasteful way, but a careful inquiry will be instituted and certain principles will be laid down. Responsibility for the large amount of valuable apparatus and equipment owned by the University has been fixed upon an officer in the Comptroller's Department. It is the business of this person to visit the various

departments and to check up periodically the apparatus, supplies, etc., which appear in the official inventories. It is possible to push the likeness between an educational institution and a large business too far, but there is also danger that the University may overlook a good many of the methods by which ordinary business houses effect economies and increase their efficiency. It is the aim of the University of Minnesota to conduct its affairs in a business-like, economical way at the same time that it safeguards the educational opportunities for which it was founded and exists.



NEW MILLARD HALL
COLLEGE OF MEDICINE AND SURGERY

Records of University land.—The University has never had in its own possession a complete record of its own lands. During the last few months a man has been employed to make such a record. He has discovered that a considerable number of acres due the University have not been designated. Steps will be taken to rectify this error. This whole work when completed will provide an authoritative and accurate list of all lands which belong to the institution.

PHYSICAL PLANT AND EQUIPMENT

The Library.—A large, well-selected, steadily growing, properly housed library is the very center of a true university. The subdivision of human knowledge is so minute, the accumulation of books so great, and scientific publication so voluminous that a large staff is needed to select, classify, and catalogue these resources. The present is so dependent on the past that thousands of volumes, series of periodicals, source materials of many kinds must be available if really advanced instruction, to say nothing of investigation, is to be carried on. The report of the Librarian sets forth clearly the needs of the Library, and gives a table which shows that, judged by the number of volumes in its library, the University of Minnesota has much ground to gain before in this respect it can enter the first class of educational centers. The Public Library of Minneapolis and the State Historical Society Library in the Capitol must be reckoned as important contributing agencies in making books available for University students.

Books and apparatus.—The \$25,000 a year available for the purchase of books and apparatus has been economically expended and has increased the efficiency of all departments of the University. The actual needs, however, are far from met. Many of the scientific departments can not do effective work especially in research unless the funds available for the purchase of apparatus are considerably increased.

University architecture.—The new type of building adopted by the University is simple, dignified, and appropriate for a state institution. The lighting is exceptionally good and increases materially the educational efficiency of laboratories, lecture and class rooms. The construction throughout is fire-proof, and, while ornamentation and decoration have been reduced to a minimum, there has been none of the false economy which effects an initial saving at the expense of ultimate cost for repairs and renewals. The type that is now established will be followed, with individual variations, in all of the new buildings of the institution. The halls and laboratories which face the main Plaza on the new campus will of necessity receive more monumental treatment, but even the façades of these buildings will not give the effect of extravagant ornamentation.

New buildings.—In September, 1911, the Elliot Memorial Hospital Building was opened to the public. In August, 1912, the New Main Building and the Experimental Laboratory of the College of Engineering and Mechanic Arts were occupied. The New Millard Hall and the Institute of Anatomy were also practically finished in August of 1912 and were being equipped for use for the next academic year. Work upon the Central Heating Plant is progressing rapidly and it is expected that steam from the new boilers will be turned on early in January, 1913. The new Mechanic Arts Building and Shops for the Department of Agriculture is well under way and will be ready for use in the spring of 1913. The additions to the dormitory and dining-hall accommodations for the Central School of Agriculture were completed and occupied during the biennium. All the new buildings for the Sub-Stations and Schools were either available during 1911-12 or were rapidly approaching completion. Various minor additions, barns, etc., authorized by the last Legislature, have been put in service.

Delay in building the Chemistry Laboratory.—The Legislature of 1911 provided a total of \$405,000 for a new Chemical Laboratory. In the summer of 1911 the Dean of the School of Chemistry visited the chief chemical laboratories of Europe and of the United States with a view to securing the latest information. Through miscalculation in the original estimates the appropriation was found inadequate to build the Laboratory which the School desired. Plans were repeatedly drawn and re-drawn with the hope that the original scheme might be at least approximated. When at the end of February, 1912, old Millard Hall was burned, the experts reported that the building could not be re-constructed. It was then proposed that the fire insurance from this Hall be added to the remodeling appropriations, that the Chemistry Laboratory be built on the enlarged scale, and that the College of Dentistry be quartered in this building for the next few years. It was planned to ask at the special session of the Legislature in June for authority to make this transfer of funds. When the Legislature decided to consider only the measures included in the call of the Governor, this idea was abandoned. The Governor, the Attorney General, and the State Auditor were asked under the authority of an act giving them power to make appropriations in emergencies, to

authorize the transfer of the fire insurance money and the special remodeling appropriation to the Board of Control for the completion of the Chemistry Building. These officials, however, deemed the situation not an emergency within the meaning of the act. Therefore, in the summer, it was necessary to go back to the original appropriation and to begin again an attempt to use the money in the most effective way. It is expected that the contracts for the building will be let some time in January, 1913. The Regents will make no request for an additional appropriation for this building, but will do the best that can be done within the limits of the funds available.

Remodeling of old buildings.—In February, 1912, old Millard Hall, occupied by the College of Dentistry and in part by the College of Medicine and Surgery, was so seriously damaged by fire that at first the architects deemed it unwise to attempt the fire-proofing which had been authorized by the Legislature of 1911. After further consideration, the experts decided that the condition of the exterior walls justified the remodeling and the continued use of the structure. It is expected that this will be ready for occupancy by the Department of Pharmacy in the spring of 1913. The old Anatomy Building, adjacent to Millard Hall, will be rebuilt as a medicinal plant house. As soon as the Medical Science Building was vacated by the College of Medicine and Surgery in the early summer, the work of remodeling this building for the use of the College of Dentistry was pushed vigorously. At the end of August it was clear that the work would be completed in time for the opening of the new University year. When the Pharmacy Department has been transferred to its new quarters, the College of Dentistry will be admirably housed and equipped. The new operating clinic will be supplied with 125 chairs. The equipment of laboratories, shops, and operating rooms will be of the most modern type.

Heat and light.—The new Central Heating Plant on the river bank will be connected with all buildings through main and lateral tunnels and shafts cut in the sandstone which underlies the campus. The new plant, equipped with six boilers of 350 horse-power will easily supply with steam all the present buildings and the new Chemical Laboratory, for which the contracts will soon be let. There will be a margin of capacity for the heating of still other buildings. The power house has been so

constructed that new boilers may be added as the growing demands of the institution may require. One of the advantages of the new plant will be the elimination of the smoke which heretofore has come in such volume from the University stacks. The institution hopes to set an example of good engineering, of economical operation, and of regard for the community. Pending the development of the high-dam project it has been deemed unwise to recommend at present the installing of machinery for producing current from the exhaust steam of the heating plant. A contract, terminable on reasonable notice, has therefore been entered into with the Minneapolis General Electric Company for the supplying of current to supplement that which is generated in the old power house of the College of Engineering and Mechanic Arts. A comprehensive lighting plan will have to be worked out for the future. The University can not afford long to continue to purchase light and power on the present terms.

Grounds, maintenance, etc.—The large amount of building under way on the new campus has made it impossible to do any grading except in the vicinity of the Elliot Memorial Hospital. A number of years must elapse before this part of the University grounds can be made to assume its proper appearance. It is to be hoped, however, that the more unsightly features of this section can be removed, large areas graded, and the beginning of orderliness created. An arrangement with the city by which Pleasant Street is to be macadamized will bring about a long-needed improvement. When this work is completed, all the avenues on the old campus will be well surfaced. Plans are under way for using the surplus earth from the new campus to raise the level of the parade ground. The present grade is so low that it is impossible to keep this area covered with turf.

ADMINISTRATIVE CHANGES

The Comptroller.—On May 4, 1911, the Regents created the office of University Comptroller and provided that he should be appointed by the Board on the nomination of the President of the University, should serve as Secretary to the Board, act as Purchasing Agent as provided by law, have charge of all business affairs of the institution and act as the official channel

of communication between the Board of Regents and the Board of Control. Mr. George H. Hayes was appointed to this position.

The Deans' Committee.—The Deans of the colleges and schools have, with the President, formed a central administrative committee that has attempted to see the interests of the University as a whole at the same time that it has consulted the welfare of each of the constituent units. The spirit of mutual consideration and loyalty displayed by this group has been gratifying and full of promise for the future.



THE INSTITUTE OF ANATOMY
COLLEGE OF MEDICINE AND SURGERY

The University Senate.—On May 6, 1912, the Regents adopted on the recommendation of the University Council a constitution for the University Senate. The constitution recognizes the autonomy of the various colleges and schools of the University, and at the same time establishes a central body to which are entrusted the interests and welfare of the University as a whole. The Senate is not made up of representatives of the various colleges, but includes all teachers of the rank of Professor and Associate Professor throughout the institution.

The Associate Professorship.—The Regents have re-established the academic rank of Associate Professor. This type of professorship is administratively useful. It affords an opportunity to test men who have established their right to be promoted from an assistant professorship, but whose qualifications for a professorship are still in doubt. It provides a permanent position of dignity for men whose value to the University is unquestioned, but whose fitness for the highest academic rank is not convincingly demonstrated. An Associate Professor is by virtue of his position a member of the University Senate.

Appointments for definite periods.—The Regents have revived the policy of appointing instructors for periods of one, two, or three years. Appointments to Assistant Professorships are ordinarily made for a period of four years and to Associate Professorships for a term of five years. Professorships remain as indeterminate appointments. The policy of making periodic appointments for the lower academic ranks is obviously in the interests of good administration and for the protection of members of the staff. An instructor has the right to know at fixed intervals whether his service is satisfactory. The Assistant Professor in the same way ought to have the question of his promotion or the increase of his salary come up for decision at a definite time.

University Extension Board.—In furtherance of the policy of developing the extension work of the University, the Regents have authorized the appointment of a University Extension Board, and have created the position of Director of University Extension. The Board at present includes the President of the University, the Director of University Extension, and representatives from all the colleges under the auspices of which University Extension Work is being offered. With the organization of the Senate this Board will become one of the standing committees of that body.

The status of the Dean of Women.—The position of Dean of Women in the University of Minnesota has been the subject of gradual development. With the appointment of a new Dean of Women a further step has been taken in defining the status of this deanship. The Regents have recognized this position as a university, rather than a college, office. The Dean of Women is not only a member of the committees on student work in the

colleges which enroll women, but she is the administrative officer through whom all women communicate with these committees concerning college work.

Committees of the Board of Regents.—These committees have been reduced in number and the membership re-arranged. In place of a number of special committees, which have been abolished, individual members of the Board have been designated as consulting members. With reference to certain special interests the President of the University confers with these consulting members.

Codification of the rules of the Board.—Under the authority of the Regents, a card catalogue of the actions of the Board has been made, and will be used as a basis for codification of the rules of the Board of Regents. This will be put in printed form and used as a guide for action. It will be formally amended as the rules of the Board are modified.

Printing Committee.—Progress has been made in creating uniform standards of printing for the various official publications of the University. A University printing committee has studied questions of typography, paper, etc., and has established forms which are now being followed in all the publications of the institution.

Weekly Calendar, Postal Delivery, Bulletin Boards.—In an effort to draw the University into closer unity a number of devices have been employed. A weekly University Calendar, containing announcements of University and college exercises, public lectures, committee meetings, student gatherings, etc., is issued from the President's office and posted on bulletin boards throughout the grounds and buildings of the institution. In connection with the University Post-Office, regular deliveries of mail to and from the different buildings have been established.

EDUCATIONAL POLICIES

Reorganization of the Law School.—The Regents have approved the plans for reorganization submitted by the Faculty of the Law School. These plans include the increasing of the number of hours required of candidates for the degree of Bachelor of Laws from 1,000 to 1,200, the introduction of the case-book system of instruction, originally worked out by the Harvard

Law School, the reorganization of the courses on a semester basis with semester examinations, and the withdrawal of the degree for night law work. Night instruction in law is continued in connection with the Division of University Extension.

Assignment of Shevlin Fellowships.—The Board has voted to place the administration of the four annual \$500 fellowships in charge of the Graduate School with instructions to assign these one each to the Arts College, the College of Agriculture, the School of Chemistry, and the College of Medicine and Surgery. It is further provided that Shevlin Fellows are to do no assisting or teaching, but to devote themselves wholly to study and investigation. They are exempted from paying incidental fees.

Combined Course in Arts and Law.—By an arrangement between the Law School and the College of Science, Literature, and the Arts, a combined six years' course leading to the degrees of B.A. and LL.B. has been organized and has received the sanction of the Board of Regents. By this arrangement academic seniors may count the first year in the Law School as the fourth year of candidacy for the Bachelor of Arts degree.

Seven-year Medical Course.—As a result of a conference with regard to the seven-year medical course, which is a combination of two years of preparation in the College of Science, Literature, and the Arts and five years of medical work, certain minor changes in the curriculum have been made. A regulation has also been adopted which requires a student who is a candidate for the degree of Doctor of Medicine to receive his B.A. or B.S. degree before the higher degree is conferred.

Five-year Course in Mining, a course leading to the degree of Engineer of Mines in Geology and extending five years beyond high-school preparation has been established in the School of Mines at the request of that division and the requisite course of study has been approved.

Entrance requirements.—Four years ago at the request of a committee of the high school men of the State, the University agreed to impose a qualitative as well as a quantitative requirement for admission to the University. As a consequence all but two of the colleges required that the various subjects presented on certificate by students seeking admission be appraised with three marks: "passed," "passed with credit," or "passed

with honor." The value of these designations in percentages is also indicated. Each mark below "passed with credit" was counted as a condition, and an applicant having more than three conditions was excluded. Last year the rule was so modified as to exclude from the University a student who has not an average of "pass with credit." A "pass with honor" is regarded as offsetting a mere "pass." With the September registration, 1912, this new requirement becomes operative in the College of Science, Literature, and the Arts and in the College of Agriculture.

During 1911-12 the University in conference with the representatives of the High Schools has extended the number of admission units accorded to vocational subjects to three units in the College of Engineering and Mechanic Arts, where before only two units were recognized. Not more than one unit each of free-hand drawing, mechanical drawing, and shop work, not more than two units in agriculture, and not less than two units in stenography and typewriting, may be offered. This change in Engineering brings about approximate uniformity in the three large undergraduate colleges, namely, Science, Literature, and the Arts, Engineering, and Agriculture. In the colleges of Science, Literature, and the Arts, and Agriculture, four vocational units are accepted.

Advanced standing from Normal Schools.—The Regents have approved the recommendation of the Faculty of the College of Education that credit for two years' work toward the degree Bachelor of Arts in Education be granted to graduates of Minnesota State Normal Schools who have in addition to regular high school courses completed two years of work, received the certificate of a Normal School, and been recommended by its President.

Requirements for graduation.—The regulations of the College of Science, Literature, and the Arts require candidates for the Bachelor's degree to secure an average of "good" in half of their work. The object of this rule is to prevent the winning of a degree by the mere passing of so many hours of work. There is some ground for questioning whether this regulation is in practice accomplishing the desirable end which has been set up. There is reason to believe that the marking system ought to be more thoroughly discussed and a much more uniform practice

be introduced not only in the Academic college, but throughout the University as a whole. This is one of the problems which the University Senate will be asked to consider.

A Committee on Research.—The fund of \$10,000 which was granted by the last Legislature for research and publication has been apportioned by the Board of Regents on the recommendation of a research committee of the Graduate Faculty. This committee has received all applications for research subsidy, has interviewed the applicants, and has recommended a research budget. It is believed that in this way, the fund has been carefully apportioned and has been used with wisdom and efficiency. The list of subsidies for research will be published in the report of the President for 1911-12.

The Geological Survey.—In accordance with the authority obviously implied in the legislative appropriation for the purpose, the Regents established in the spring of 1911 a Geological Survey and appointed W. H. Emmons, Head of the Department of Geology, director. The work of the Survey has been pushed steadily. Results will soon be published.

A Research Bureau in Agricultural Economics.—By action of the Regents in November, 1911, a Bureau of Research in Agricultural Economics was established in the Department of Agriculture. Until recently efforts have been chiefly expended upon helping the farmer to increase the productivity of his land. The time has come to aid him in the marketing of his produce. The Bureau will undertake special studies and issue reports concerning the marketing of different commodities. It will investigate various kinds of organizations of producers. It will give attention to the vital question of agricultural credit. It will report upon systems of land titles, methods of transfer, etc. It will make special detailed surveys of rural communities. The results of studies and investigations will be published in practical bulletins of information.

A Department of Agricultural Education.—Minnesota is an acknowledged leader in the fostering of agricultural education. The device of direct subsidy from the State treasury has a remarkably stimulating effect upon local school ambition and activity. The widespread introduction of vocational education has suddenly created a demand for teachers of manual training, domestic science, and agriculture. The chief danger which now con-

fronts this educational advance is a temporary reaction due to the lack of well-trained instructors who have a liberal conception of their work, both in its scientific and its social aspects, and who have had sufficient practical experience to give them influence in the community. The University recognizes its duty to provide a training for the teachers of vocational subjects. This training must be at once broad in its basis and technically efficient in its specialization. The Regents have therefore established a Division of Agricultural Education in the Depart-



NEW ADDITION TO DINING HALL
DEPARTMENT OF AGRICULTURE, ST. ANTHONY PARK

ment of Agriculture, but in close co-operation with the College of Education. For the head of this department one of the recognized leaders of agricultural education has been secured. Under his guidance a four years' college course designed to train teachers of agriculture and allied subjects will be organized and a competent staff appointed. It is believed that by this step the University is fulfilling a duty and insuring to the State a permanent leadership in the newer type of education.

The Summer Session.—The courses offered under University auspices for the six weeks following Commencement fall into two groups: those for students of college grade, and those for sub-collegiate constituency, chiefly grade teachers. The latter courses are conducted under the auspices of the Department of Agriculture at St. Anthony Park. The possibilities of this type of school are being recognized and progress is being made. The collegiate courses, however, are almost wholly of an introductory character. They deal with elementary subjects. No graduate work and few advanced courses are available. Under these conditions a large registration is not to be expected. The policy of organizing the summer work on a larger scale should be immediately considered. A number of the professional schools have raised the question of offering summer instruction. It is uneconomical to have a great university plant lying practically idle for three months.

University Extension.—Heretofore extension work by the University has been limited to Agricultural Extension, to night courses in Economics and Political Science, to correspondence work, and traveling supervision in education, and to a limited number of popular lectures delivered by members of the University staff. In June, 1912, eighteen towns were reached by a series of "University Weeks" (see *University Extension*, p. 58).

New Experiment Farms.—Under the authority granted by the last Legislature, experiment farms have been purchased at Duluth and at Waseca. It is the purpose of the administration to work out upon these farms problems of peculiar interest to the regions in which the farms are located. It is planned, moreover, to give each of these farms an individual character by concentrating upon some special undertaking. For example, it is planned to breed at the Waseca Farm certain types of horses and cattle. It is hoped that these farms will not only prove important centers of scientific experiment, but that they will also be available for practical demonstrations and will be visited by large numbers of farmers in the regions which are served.

THE TEACHING STAFF

Classification of the teaching staff.—The total number of the Faculty has little significance until it has been analyzed. Table

VII shows the number of men of each of the academic grades who are giving full time or part time to the service of the University. Of the service of the deans and administrative officers, approximately half time is given to instruction. In the professional schools, notably Medicine and Surgery, and Dentistry, many men are giving a varying amount of time to teaching. A large number serve without pay and give little actual time to students. The clinical members of the staff have been assigned a separate column in this table because they represent a peculiar status which it is well to differentiate.

TABLE VII. THE MEMBERS OF THE TEACHING STAFF CLASSIFIED ACCORDING TO RANK, FULL TIME, ETC.

RANK	RETIRED	FULL TIME	PART TIME	CLINICAL	TOTAL
Deans and Admin. Officers. . . .	1	16			17
Professors.	7	67	19	32	125
Associate Professors.		2	6		8
Assistant Professors.		63	7		70
Instructors.		89	25	33	147
Assistants.		30	4	31	65
Lecturers.			18		18
Total.	8	267	79	96	450

The Medical Faculty.—The University relations and salaries of clinical men in Medical Departments constitute a problem in all institutions which are conducting medical courses. In many cases city hospital services are so subdivided that a medical school in order to gain access to clinical material is compelled to take upon its staff an excessive number of clinical men. This has been true of the College of Medicine and Surgery in the University of Minnesota. The process of gradual unification of medical teaching has also had its influence in creating a large and unwieldy staff. The teaching can not fail to suffer from the fragmentary character of courses in which so many instructors participate. It is to be hoped that as the College is now in control of its own hospital, and with the better organization of the hospital service outside, the Faculty may be reduced to a much smaller number of men.

Ratio of teachers to students.—There is no common standard by which such ratios can be established for purposes of comparison between institutions. A rough method of approximate estimate may, however, be employed. If all assistants and all

part time and administrative officers be counted as one-half, and if all students who attend for less than the regular year be counted as one-half, the Faculty of the University of Minnesota for the year 1910-11 would be reduced to the equivalent of 322, and the students to 5,186, which would yield a ratio of one teacher to every sixteen students. In 1910-11 the ratio in the University of Wisconsin was one to twelve. The report of the Carnegie Foundation for the Advancement of Teaching published in 1908 gives the following ratios for the institutions listed: Columbia University, 1 to 7.3; Harvard University, 1 to 7.0; Yale University, 1 to 9.0; Pennsylvania, 1 to 9.8; Stanford University, 1 to 8.5; Michigan, 1 to 15.0; Illinois, 1 to 8.7; California, 1 to 8.5.

Although the method employed is far from accurate, the ratio of one to sixteen for Minnesota is probably a close approximation. It should be remembered that this figure for the whole institution, including the Schools of Agriculture, would vary in a marked way in different colleges of the University. The figures point clearly, however, to the conclusion that the University of Minnesota is undermanned. The further question as to the amount of work exacted of each instructor has an important bearing on this question of ratio. If teachers are expected to do more work than they can efficiently accomplish, the ratio fails to disclose what is really in teaching efficiency a much more serious situation.

Percentage of Minnesota-trained men.—Table VIII shows the numbers and percentages of the teaching staff of the University of Minnesota who have received their academic training in this University. This table is based upon the Faculty as constituted on August 1, 1912. Clinical instructors have been omitted from the calculation. The table shows that approximately 30 per cent of the Faculty have received all their degrees from the University of Minnesota. This takes no account of a considerable number who without being candidates for degrees have studied in American and European universities. The high percentage of instructors (39 per cent) points to the probability that the small salaries available have led to the appointment of assistants at low stipends immediately after graduation, and that these assistants have been advanced to instructorships without having an opportunity for graduate study in some other univer-

sity. While there are exceptional cases that defy all rules, it is a sound principle that men should rarely receive all their formal training in one institution. When Minnesota chooses its own graduates, it should make selection almost wholly from men and women who have been tested and approved by graduate work in other universities.

TABLE VIII. SHOWING THE NUMBERS OF THE TEACHING STAFF WHO HAVE TAKEN A FIRST DEGREE OR AN ADVANCED DEGREE OR ALL THEIR DEGREES AT THE UNIVERSITY OF MINNESOTA

ACADEMIC RANK	TOTAL NUMBER	BACHELOR'S DEGREE	ADVANCED		PROFES- SIONAL DEGREE	ALL THEIR DEGREES	PER CENT WITH ALL DEGREES
			Master	Ph.D.			
Professors.....	139	6	5	...	7	31	22.3
Associate Professors.....	11	....	...	...	....	6	54.5
Assistant Professors.....	66	9	6	...	1	18	27.3
Instructors*.....	138	1	4	...	2	54	39.1
Totals.....	354	16	15	...	10	109	30.7

*Clinical instructors are omitted from this group.

The full time of a college teacher.—To judge a man's service by the actual number of hours per week which he spends in classroom or laboratory is seriously to misinterpret college and university work. This test takes no account of the hours devoted to administrative duties, to service on committees and boards. It makes no reckoning of the reading of papers and examination books, or, where this is done by assistants, of the careful supervision of their work. It ignores the time devoted to personal conferences with students and, in advanced work, to direction of their special studies and independent investigations. It fails to include the many hours which must be devoted to study and to the preparation by means of which a man continues to grow and to keep abreast of the advances in his special field. The classroom laboratory test overlooks the time which should be given to the investigation and the publication which are expected of a university man. Judged by the standards of the leading institutions, the staff of the University of Minnesota are as a whole doing more than they should be expected to do if they are to escape from the deadening effect of too much mechanical work. There is in one department, for example, a group of instructors who are required to devote forty-two hours a week each to class-room teaching and the theme reading involved in

their instruction. In another department individual schedules run in some cases to forty-eight hours per week. The situation points to several conclusions. In many cases the amount of teaching done and its accompanying obligations should be reduced. A number of men should be freed from purely routine duties and given opportunities for the research of which they are capable. The only way in which the relief can be afforded is obviously by the increase of the numbers of the teaching staff.

Outside service.—But even when a university man is doing all that can be reasonably expected in return for his salary, there remains a margin of time and energy which ought to be at his disposal. There are many forms of remunerative activity in which he may legitimately engage. He may give lectures of an educational character, he may write books the royalties of which give him an income, he may, especially if he be a member of one of the professional schools or colleges, render expert service. The tests as to whether these activities are legitimate or not are: 1st, do they interfere with the proper discharge of the primary obligation to the University? 2d, are the activities of a nature to increase the efficiency of the man himself, as a teacher, as a director of research, as an administrator? When these two questions can be answered in the affirmative, men should be encouraged to engage in so-called “outside” service. To limit the staff of a university to men whom no one else values or desires to consult, would be to condemn our institutions of higher education to the isolation of plodding mediocrity.

Salaries and a salary scale.—In spite of marked increases in salaries during the last five years, the salary scale at the University of Minnesota is distinctly below the point where many strong men and women from without can be successfully called to the institution, and able men within given adequate support and encouragement. The strength of the University lies in the personnel of its teaching staff. The buildings and equipment are of secondary importance. Increases in salary, however, must be adjusted as wisely and fairly as possible to individual capacity and achievement. A uniform salary scale with automatic promotions on the basis of term of service has a deadening effect upon the life of an institution. To grant promotion in rank in lieu of salary tends to fill the upper levels with men who do not belong there. A scale which recognizes for each rank a

minimum and maximum is desirable, but within these limits salaries should be adapted to individual cases. It is the business of the University in fixing salaries to make wise and just discriminations. Seniority should not be allowed to stand in the way of the advance of young, vigorous, and growing men. It is the painful but unavoidable duty of the administration to make it clear to certain of the staff that they have already reached the limits of rank and salary which they may expect from the University.



NEW HORSE BARN

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Publications by members of the Faculty.—The list of publications for the second year of the biennium, by members of the Faculty is not so long or so impressive as could be desired. The relative meagerness of the showing affords further proof of the fact that too many men are overburdened with teaching and administrative duties. The spirit of investigation and production can not be fostered in an atmosphere of overwork and of deadening routine. The University must find relief from such burdens for the men who are capable of productive scholarship.

It should be remembered, however, that research and publication are not the only tests of efficient service. The University owes much to scores of men and women who are devoting their time and energies to faithful and inspiring instruction. It would be unfortunate to set up any one standard, least of all the standard of publication, as the criterion of value to the University. The evidences of successful teaching are recorded in the lives of students who are stirred to intellectual effort, and who go into life with higher intelligence and loftier purpose. These records can not be translated into statistical tables nor turned into printed pages.

The Campus Club.—The opening of the Campus Club on the University grounds has provided a center for social intercourse. A half dozen men live in the House. Scores frequent the house for luncheon. Faculty committees find the Club a convenient meeting point. The institution will contribute steadily to a growing feeling of unity and common interest on the part of the teaching staff of the University. The Club pays rent to the University for the Club House, and by fees and service charges meets all expense of maintenance.

THE STUDENTS

Health conditions among students.—The University has a duty with reference to the personal health of its students and the public health of the community. The present situation is unsatisfactory. The question of health jurisdiction is not clearly defined. The officers who deal with the physical condition of the students are not related in any organized way. Physical examinations can not be made so promptly as they should be. The gymnasium facilities for women are utterly inadequate and unsatisfactory. The quarters for men are far from meeting the standard of the best institutions. There have been no serious outbreaks of contagious or infectious diseases during the year. Many of the boarding houses of the southeast district have been given a sanitary inspection and in many cases conditions have been improved. The fact that many students are living at home makes the situation less serious than it would be if almost the whole student community were non-residents.

As soon as funds are available the University should be organized into a model sanitary district and an officer should be put in charge.

Housing of students.—A reference to the map, page 20, shows that 1,684 students were living in November, 1911, in the vicinity of the University. For these the University provides in Sanford Hall resident accommodations for 90 women. The restaurant in Alice Shevlin Hall serves luncheon daily for about 400 women. Fraternity and sorority houses provide quarters for approximately 400 students. The remainder must find rooms and board in about 50 boarding-houses and in large numbers of private families. The reports of the inspectors make it clear that too many students are living in crowded, ill-ventilated, inadequately heated rooms. There is a real need for better quarters for this group of students. It is to be hoped that in the near future the University will be able to provide sufficient dormitory accommodations for all women who are not living at home. A dormitory system for men should be established as soon as the resources of the University permit.

Loan funds and scholarships.—For the year 1911-12 loans were made as follows: Gilfillan Trust, \$5,052; Ludden Trust, \$300; Elliot Trust, \$400. There is no way in which citizens of the State who desire to assist ambitious and deserving students to take advantage of the education which the State provides can do more to co-operate with the University than in providing loan funds of this sort.

A University employment bureau.—A vocational census made last spring showed among others the following interesting results: Four hundred and ninety-four men and eight hundred and forty-one women filled out question papers which made a list of inquiries about plans for the future and about personal expenses and individual earnings. Of the 1,335 students who reported, 96 per cent gave facts about their incomes. Sixty-four per cent of the men reported that they were earning a part or the whole of their way through college. Among the students who come from farms, 78 per cent were meeting wholly or in part their college expenses. Of the women 15 per cent said that they were earning something at least toward their own maintenance. The aggregate earnings reported by these students were \$94,000, an average equivalent for the men of \$306 each and for the

women of \$191. The University should do all in its power to find for its students who desire work the best opportunities. At present the College of Education conducts a bureau for the placing of University graduates in teaching positions. The Y. M. C. A. serves as a clearing-house for the employment of men students. The Dean of Women acts in a similar capacity for University women. The question arises, however, as to whether the time has not come for the establishment of a regular employment bureau under the charge of an officer who gives his whole time to the work of finding fairly paid and safe employment for students and graduates of the University.

Scholarship of students.—During the year 1911-12, 176 students were dismissed for delinquencies in scholarship. (See Table IX.)

TABLE IX. STUDENTS DISMISSED FOR POOR SCHOLARSHIP, 1911-12

COLLEGE	MEN		WOMEN		TOTALS	
	Registered	Dropped	Registered	Dropped	Registered	Dropped
Science, Literature, and the Arts.....	690	73	1008	29	1698	102
Engineering.....	356	21	....	..	356	21
Agriculture.....	184	7	200	3	384	10
Law.....	203	24	6	1	209	25
Medicine.....	177	3	29	..	206	3
Dentistry.....	244	..	3	..	247	...
Pharmacy.....	74	2	1	..	75	2
Mines.....	98	3	....	..	98	3
Chemistry.....	78	10	3	..	81	10
Education.....	6	..	84	..	90	...
Graduate.....	14	..	89	..	103	...
Total.....	2124	143	1423	33	3547	176

The rules have been enforced with efficiency and without any yielding to pressure. The regulations undoubtedly result in the elimination of weak students. There is always the danger, however, that a few promising students will be included in these more or less automatic dismissals. When large numbers must be dealt with by an inadequate staff an educational machine is the result. It is to be hoped that in the early future there may be added to the staff preceptors who can give personal attention to students who are failing in their work. This increased service is needed not only for students who are failing in their work, but perhaps even more for the encouragement of those who with friendly guidance and stimulation might achieve much more in their college course. The student of unusual ability

who rests content with mediocrity of work is quite as unfortunate as one of limited ability and defective training who is merely struggling to remain in college.

The Students' Council.—During the year 1911-12, a Council of Students representing all the colleges of the University has been organized. This Council is designed to lead and represent student opinion. In all the large universities, the old days of faculty coercion have passed. Community control must depend upon mutual respect, upon frank conference, and upon friendly co-operation between students and faculty. The organization of the Students' Council is an auspicious and welcome movement in the direction of organized student participation in the life of the institution.

The Minnesota Union.—The women of the University find in Alice Shevlin Hall a social center, a place for study, for refreshment, and for comradeship. The men of the institution have no corresponding headquarters. The fraternity houses can serve only their own members. The only centers for men are cigar stores, newsrooms, restaurants under private auspices, run by proprietors whose primary interest is commercial. The Minnesota Men's Union is preserving its organization with the hope that a building for men can be secured. Such a building is to be found in most of the leading universities of the country. These houses are not places for mere idling. They are centers which afford organization rooms, study rooms, toilet facilities, space for games, and conditions for comradeship.

Fraternities and sororities.—These organizations under existing conditions render unquestioned service in student life. They provide rooms and board for a considerable number of students (about 400). They afford opportunity for comradeship. They exercise a control over their members. They cultivate loyalty and are centers for the development of the University spirit. On the other hand, they involve certain dangers. They tend to waste the time of their members. They fall easily into a kind of snobbery. They often lower rather than maintain the moral standard of the community. They may divide the student body and foster ill-feeling. In short, fraternities and sororities are like all human institutions,—under the right sort of leadership and guidance they may be a source of strength; under other conditions they may be a menace. The biennium

has been marked by increased interest in the fraternity situation. The alumni and heads of the departments are showing an attitude of concern for them and their members. Fraternity finances are being put on a more business-like basis. The comparative scholarship reports with which the fraternities have been supplied have stimulated a desire to make a better showing. The Interfraternity Council has shown an increased sense of responsibility.

The sororities have adopted a rule which ought to minimize some of the evils that have heretofore been encountered. Hereafter new members will not be pledged until the end of the freshman year. This ought to raise the level of seriousness and scholarship in sororities and discourage the entrance into the University of the type of young woman who attempts a year of college work purely with the idea of gaining coveted membership in a sorority. The University must assume toward these organizations an attitude of co-operation. It must regard them not as evils to be endured but as possible agencies of good to be encouraged. Constant vigilance, however, on the part of graduate leaders, undergraduates, and University committees is necessary if the advantages of these groups are to be secured and the dangers to be minimized.

Student activities.—The students of the University maintain eleven literary societies; thirteen associations for various purposes of self-government, racial loyalty, and self-improvement; four religious associations; twenty-one clubs organized about interests and activities. The student community supports five regular publications; there are in active existence forty fraternities (including the professional fraternities and three honor societies) and ten sororities. The appeal of all these interests and organizations may well be distracting. The Dean of Women reports a wise attempt on the part of the self-government association to limit the number of activities in which any one woman may engage. A similar restriction upon the social and other enterprises of men has been at least discussed by the Interfraternity Council. The scholarship reports unquestionably reflect the influence of these many appeals which are made to students. On the other hand many of these clubs and the activities which they foster undoubtedly afford under reasonable

conditions valuable training, widen sympathy, discover latent abilities, and provide an important discipline.

Ethical standards among the students.—The University fails signally if it neglects to develop in its students a discriminating intelligence and a sound feeling with regard to moral questions. A morality which satisfies itself with fine phrases and formal praise of lofty ideals, and evades the concrete moral questions that arise in daily life is no better than hypocrisy. College life offers many problems, problems of honesty in student work,



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of strict integrity in handling student finances, of sensitive honor concerning athletic contests, of individual responsibility for the repute and welfare of the institution, problems of personal morality, self-discipline, of consideration for one's fellows, and the growth of loyalty from that of the gang into the wider reaches of public spirit and the obligations of service. Student feeling concerning moral questions is essentially sound and trustworthy when judgment is not swept away by temporary feeling or con-

fused by a clouding of issues. It is the duty of a University administration to see to it that moral questions are clearly analyzed, that confused thought is clarified, and that vital moral issues are pressed home and a decision insisted upon. In this work of making clear-cut discriminations and of influencing moral judgments the co-operation of the students through their councils and their leaders is essential. More and more the University authorities must rely upon the aid of the students in the work of defining moral issues and rallying student opinion to the support of what is clean, honest, fair, just, considerate, and disinterested.

THE ALUMNI

The report of the Secretary of the General Alumni Association deals with the organization of the alumni, with the management of the *Alumni Weekly* which has a subscription list of 3,000, and with the statistics of graduation. From the founding of the University to August 31, 1912, the University has conferred degrees upon 9,654 graduates. It is estimated that of these 8,930 (6,700 men and 2,230 women) are now living. A little more than two-thirds (5,680) of the alumni are residents of the State of Minnesota. The remaining 3,250 are widely scattered, chiefly throughout the northwestern states. The interest of the alumni is attested in many ways. Alumni dinners and meetings of graduates have been held in many towns of the State to welcome the president and other members of the University staff. In connection with the University "Weeks" held in June the alumni of each community worked enthusiastically to make the experiment a success. The influence of the graduates of the University is an important asset of the institution. The co-operation of these men and women must be relied upon by those who are responsible for guiding the growth of the University. This co-operation to be permanently successful must take the form of diffusing widely through the State accurate facts and convincing arguments concerning the needs of the University and its value to the State. Any concerted movement at all resembling an organized lobby to exert pressure upon the Legislature would be rightly resented and would react seriously upon the institution. The alumni have shown their

appreciation of this danger and may be counted upon to act with consideration for the larger welfare of the State and of the University as a servant of the commonwealth.

UNIVERSITY FUNCTIONS, CONVOCATIONS, PUBLIC LECTURES, ETC.

The inauguration exercises.—The ceremonies connected with the inauguration of the third President, took place in October, 1911. The alumni procession and pageant on the evening of October 17th were notably successful and impressive. The exercises of inauguration day were simple, appropriate, and brief. The dinner at the University Farm in the evening was informal and spirited.

Commencement exercises.—In June, 1911, the Baccalaureate address was delivered by Dr. J. E. Freeman, of St. Mark's Church, Minneapolis, and the Commencement address by the President of the University. In 1912, the speakers were Professor Theodore G. Soares, of the University of Chicago, and Dr. Albert Shaw, editor of the *American Review of Reviews*.

Opening convocation.—The first day of the autumn semester, 1911, there was a general assembly of Faculty and students in the University Armory. The brief exercises succeeded admirably in emphasizing the unity of the institution as a whole, in recognizing the individuality of its various divisions (the students and teachers of each college were asked to rise as the roll of the colleges was called), and in deepening in all at the outset of a new year the sense of obligation to the State which makes the university opportunities possible. The opening convocation will be a permanent institution. At another convocation held in October, an address was delivered by the President of the United States.

Chapel assemblies.—The re-arranged schedule of classes provided for University chapel assemblies on Mondays, Wednesdays, and Fridays. These gatherings were addressed by distinguished speakers from Minneapolis and St. Paul and from abroad. A number of musical programs were provided under the charge of the Director of Music.

Courses of public lectures.—In furtherance of the policy of fostering the intellectual life of the University, public lecture

courses and single lectures were arranged during the second year of the biennium. A valuable course in Comparative Literature was given by a group of professors of the University. Professor Otto Heller, of Washington University, delivered a course of five lectures on Ibsen; Professor E. A. Moore, of Harvard University, three lectures on Modern Thought and Religious Belief. Dr. Inazo Nitobe, of the First Higher College, Tokyo, Japan, Exchange Professor, gave a course of eight lectures on the History and Institutions of Japan. A series of vocational addresses on the chief careers open to college men and women was delivered by leading business men and social workers of Minneapolis and St. Paul.

Meetings of societies.—The University offers its hospitality to educational groups of many kinds. During the year 1911-12 the Superintendents of Schools of Minnesota held their annual meeting at the University.

Representation at other institutions.—A large university is called upon constantly to send representatives to the meetings of scientific societies and to public ceremonies of other universities and colleges. It has been the policy of the University to limit representation at these gatherings as strictly as possible by applying the test of increased efficiency for those who attend the meetings, and the possibility of contributing to the interests which are represented. In case of ceremonies which are largely formal, such as the inaugurations of new presidents, the University has asked alumni in the vicinity of the institutions concerned to represent Minnesota at these gatherings.

A SURVEY OF THE COLLEGES

The extended reports of the Deans of the various divisions of the University appear in the Report of the President for the year ending July 31, 1912. Copies of this volume will be sent to all members of the Legislature. In the following paragraphs are summarized the salient ideas which are presented in these different reports.

College of Science, Literature, and the Arts.—The Dean reports the re-organization of combined courses in Law, Medicine, and Education by means of which the curricula of these colleges are brought into close relation with the curriculum of the College

of Science, Literature, and the Arts. Stress is laid upon the need of additions to the teaching force and upon the importance of larger salaries for men of unquestioned ability or of distinct promise. There is an enumeration also of the buildings which are desirable for the immediate use of the College or which should be included in a building program for the future.

College of Engineering and the Mechanic Arts.—The Dean reports the resumption of courses in Architecture and the inauguration of a five-year course in Engineering. The value of an urban location for engineering schools is demonstrated. A plea for the removal of the extra tuition fee for non-resident students is based upon the belief that the College of Engineering has a duty to the whole Northwest. Plans for an Engineering Reference Bureau for the State, a center for technical societies, a library, and for the co-operation of practicing engineers, are outlined. An academic year of eight months secured by the curtailing of vacation periods is recommended. A building for Electrical Engineering is urged as a pressing need of the College.

The Department of Agriculture.—This Department reports the organization of a Bureau of Research in Agricultural Economics for the study of marketing problems, credit for farmers, land titles, etc. This Bureau has recently made a social survey of a rural township in southern Minnesota. The extension activities of the Department are enumerated. These include industrial contests, farmers' clubs, demonstration farms, special educational trains, providing judges for County Fairs, thirty-five short courses in High Schools, supplying of lecturers for farmers' meetings, etc. The Department, through press sheets, plate service, and extension bulletins, distributes information throughout the State. The report includes also a plan for the organization of the Department and enumerates additions to the teaching staff. Curriculum changes, the raising of entrance requirements, the discontinuance of the two-year course in Home Economics, specialization in Junior and Senior years are set forth in detail.

The Dean calls attention to the establishment of a Department of Agricultural Education, a plan for segregating the staffs of the College, School, and Station, a proposed five-year course in the Schools of Agriculture, the success of the new Junior

Short Course, and the establishment of a system of correspondence instruction for School students during the summer vacation. The report deals also with the development of Graduate Work in the College of Agriculture.

The work of the Experiment Station is described, and a list of special investigations under way is given. Plans for the new stations at Duluth and Waseca are outlined. Statistics of registration, special needs of the various departments, salary increases, increases in the staff, and the building requirements of the several divisions of the Department are set forth in detail. The report of the Dean includes statistical and other information concerning the stations and schools under the control of the Department in different parts of the State.

The Law School.—The Dean describes the changes in the entrance requirements, in methods of instruction, gives facts with regard to registration and geographical distribution, outlines the policy with reference to the teaching of Law at night and indicates the general plans for future development.

College of Medicine and Surgery.—This report includes that of the Superintendent of Hospitals. Special attention is called to the clinical needs of the College and a plea is made for increased hospital facilities. The concentration of all the work of the College, including the out-patient service, is urged. The claims of preventive medicine and of public health are urged, and the establishment of courses for the training of health officers is recommended. The Hospital report gives in detail the facts about patients, operations, per capita costs, etc.

College of Dentistry.—The Dean describes the re-organization of the work of the College, the raising of standards, makes a plea for research work, maintains that preventive dentistry offers a most important field of development, presents arguments for the maintenance of a dental clinic through the summer, and shows the need of scholarships for promising students.

College of Pharmacy.—The Dean reports co-operation with the University Dispensary, and the success of the medicinal plant garden. He makes a plea for an increase in the teaching staff of the College, for raising the standard of admission, and the development of a four-year course. He describes also the new quarters which are being prepared for the College.

School of Mines.—The Dean reports changes in the curricula,

the adding of a course in Mine Plant Designing and points out a demand for experts in metallography. The work of the Experiment Station is described and statistical reports as to specimens assayed, etc., are included. The needs of the School are declared to be increases in staff, improved equipment, and, in the near future, more adequate buildings.

School of Chemistry.—The Dean reports statistics of registration, scholarship, etc., describes the various curricula of the School, indicates the special investigations which are being



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carried on, and appends a list of theses upon which students have been engaged.

College of Education.—The Dean makes a plea for better training for High School teachers, and for the technical preparation of principals, superintendents, and special teachers of vocational subjects. The needs of the College with respect to staff, co-operation with the other divisions of the University, equipment and buildings, are clearly set forth.

Graduate School.—In addition to important statistics, the Dean reports in general upon the status and policy of the graduate work in the University. He asserts that the University in many departments is not equipped for genuine graduate work. He emphasizes the need of more men for research, more leisure, and more adequate compensation. He reports the raising of the standard of graduate work by abolishing work *in absentia*, and discusses the character and purpose of the course leading to the Master's degree. The influence of the Graduate School on the University as a whole is insisted upon.

Report of the Dean of Women.—This report deals with the supervision of lodging-houses, with employment for women, with scholarships for women, with the Student Government Association and Shevlin Hall, with the sororities, the Pan-Hellenic Association, and other student activities. The Dean recommends that the Dean of Women be made a member of the student work committees in all Colleges which enroll women. She advises the continuance of lectures in personal hygiene and reports a plan for the re-organization of health supervision and physical education for women. The report includes the recommendation of more dormitory room and makes a plea for co-operation in raising standards of taste and conduct.

Report of the Librarian.—This report outlines the library policy, proposes a plan for determining relations between the general library and the departmental libraries, describes the cataloguing work in progress, proposes the establishment of a loan department, warns against the danger from fire, offers a program of library development, and recommends increases in the staff and the early beginning of a new Library Building.

UNIVERSITY EXTENSION

The following statements have been prepared from data supplied by the Directors of University Extension Work and cover the second year of the biennial period only.

University Weeks.—During the first three weeks of June, 1912, the University organized in eighteen towns of Minnesota one-week programs of lectures, conferences, and entertainments. The following organizations and institutions co-operated with the University in this enterprise: The Federated Women's

Clubs, the State Art Society, the Department of Public Instruction, the State Library Commission, the State Board of Health, the State Department of Labor, the Normal Schools at Duluth, Mankato, and Winona, Unity House of Minneapolis, the University Glee Club, the University Dramatic Club, and the Minneapolis School of Music. Seventy persons participated in the public exercises and in the administration of them. Of these persons fourteen contributed their services without any compensation, forty-six served for their expenses only, while ten received expenses and small fees. The distance covered in the three circuits was seventeen hundred and twenty-four miles. Seventeen counties were reached. It is estimated that twelve thousand six hundred people attended the sessions. Nine farm-boys' camps were organized with a total enrollment of two hundred and seventy boys. The program for the week was arranged in such a way as to give each day a special character. The six days were: "Farmers' Day," "Business Men's Day," "Art and Literature Day," "Town and Country Day," "Public Health Day," "Home Welfare Day." A trained nurse spent an entire week in each town, giving two talks daily on Home Nursing, Dietetics, Care of Children, Sex Hygiene, and other important topics. The experiment was an unquestioned success. The total cost was \$7,878.75, the total receipts \$5,476.18, leaving an expense of \$2,402.57 to be met out of University funds. The amount paid for railway mileage was approximately \$1,600. All the eighteen towns have applied for a continuation of the plan next June. Experience has shown that the number of daily exercises should be reduced, with a consequent reduction in the size of the staff. The Boys' Camps should be put on a self-supporting basis. This can be done with a small expenditure for each boy. Arrangements should be made earlier so that there will be a longer period for a publicity campaign. The northern circuits must be organized so that the distance between towns will not be so great and involve so serious an expense.

Agricultural Short Courses, Demonstration Farms, etc.—In 1911-12 twenty short courses in Agriculture, eleven short courses in Home Economics, and fifteen short courses combining these two subjects were conducted under the auspices of the University. These courses were one week in length. The total attendance

at all sessions was twenty-five thousand eight hundred. Twenty demonstration farms have been operated under the direction of three men who have devoted practically their entire time to this work. Each farm is visited at least twice each month. Public demonstrations of stock judging and the spraying of mustard were given at Pipestone and Osakis.

Industrial Contests, Rural School Work.—Two men have given the greater part of their time to the organization of industrial contests in the rural schools. These have been conducted in about forty counties. Approximately fifteen thousand boys and girls have taken part. The contests include sewing, baking, manual training, and the growing of grain, corn, and vegetables. An acre-yield contest with about thirteen hundred competitors was also organized. In co-operation with the *St. Paul Dispatch*, an acre-yield potato contest was conducted in ten counties with the participation of about one thousand boys and girls. With the aid of the *Minneapolis Tribune* a similar contest in tomato growing and canning was carried through in eleven communities. This enlisted the interest of over a thousand girls. An important feature of the industrial contest has been the introduction of prizes for booklets prepared in the rural schools on selected agricultural topics. The Extension Work is to be credited with the inauguration of a plan for providing warm lunches for those who attend the rural schools. This plan has been adopted by several country schools, which have been fitted with gas plates and other equipment. The preparing of the luncheon affords an opportunity for elementary instruction in Domestic Science. Out of more than twenty teachers who have tried the plan in Douglas County all report satisfactory results. The County Fairs offer an opportunity for extension work. In the autumn of 1911 demonstration tents were sent to fifteen county fairs. These fairs are more and more becoming educational influences in the State. The judging of exhibits is another form of service which the Extension Department is increasingly called upon to provide.

Press Service and Bulletins.—In 1911-12 twenty-four numbers of the *Farm Press News* were published and distributed to the newspapers in Minnesota and adjoining states. The following bulletins were issued: No. 19, Domestic Science in Rural Schools, Mary L. Bull; No. 20, Soil Tillage, O. M. Olson;

No. 21, The Care and Management of Poultry, C. E. Brown; No. 22, Establishing an Orchard, K. A. Kirkpatrick; No. 23, Some Common Insects and Their Control, F. L. Washburn; No. 24, Seed Testing, W. L. Oswald; No. 25, Annual Pasture, Soiling, and Hay Crops, Andrew Boss; No. 26, Seed Grain, Andrew Boss and C. P. Bull; No. 27, Flax Growing, C. P. Bull; No. 28, Tuberculosis, C. Easton and C. R. Barnes; No. 29, The Keeping of Dairy Cow Records, A. J. McGuire; No. 30, Marketing Eggs from the Farm, N. E. Chapman. The mailing list for extension bulletins now numbers about forty-two thousand names. For each of nine months four-page leaflets have been mailed to all the rural school teachers of the State. These leaflets are designed to arouse an interest in the study of Agriculture. Ten thousand copies were printed for each issue.

Farmers' Institutes and Clubs.—The Extension Division co-operated with the Farmers' Institutes. Two hundred and twenty-six of these were held during 1911-12 with an aggregate of six hundred and sixty-five sessions and a total attendance at all sessions of one hundred and nineteen thousand one hundred and eighty-two. Fifty thousand copies of *Farmers' Institutes Annual* were published. This annual contained three hundred and twenty pages of practical farming articles fully illustrated. The annuals were distributed to all who attended the Farmers' Institutes. The division continued its co-operation with Farmers' Clubs and encouraged the organization of new clubs wherever possible. The division supplied these clubs with lists of timely topics for discussion. It also supplied speakers for the club meetings. The experience with the Clubs has been most encouraging and there is reason to believe that this movement has in it large possibilities.

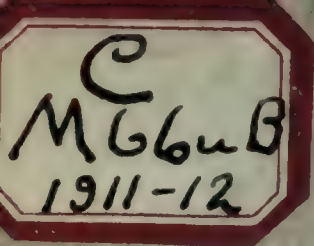
Extension in Economics and Political Science.—During the first semester 1911-12 evening courses were conducted in Elementary Economics, Business Law (three courses), Accounting Systems (three courses), Banking Practice, Money and Credit. There was a total registration of 274 students. In the second semester, in addition to the continuation of six courses given in the first semester the following courses were conducted: Advertising and Salesmanship, Practical Economic Problems, Funding Institutions, and Investments. The registration for the second semester was 192, making a total for the year of 466.

This University work in St. Paul and Minneapolis represents a duty which the University has in these larger urban centers. It is to be hoped that the number of University courses can be rapidly increased and that similar instruction may be offered in Duluth and other cities of the State, if a demand for work of this kind either now exists or can be created. The work in Minneapolis has been aided by the co-operation of the American Institute of Bank Clerks and other organizations. It has had the friendly support of business men and commercial firms.

College of Education Extension.—The \$5,000 appropriated for this purpose has been expended to maintain: (a) a teachers' agency for the benefit of Minnesota schools and for the advantage of University graduates (about one hundred were assisted to positions at an aggregate saving to them of a large sum in agency fees); (b) to follow up the work of University graduates now teaching by personal visits where possible, with the result both of increasing the efficiency of these teachers and of strengthening the teaching of the College through the inspection of the work of former students; (c) to continue on a moderate scale the principle of correspondence study, by which for several years about forty students have been brought annually into relation with the University; (d) to send representatives to meetings of teachers and school officers throughout the State (representatives of the Department have given eighty-two addresses to an aggregate of eight thousand five hundred people and have also participated in the programs of the University Weeks); (e) to assist schools with suggestions, loan of libraries and lantern slides. Something in this direction has been done although too little money has been available for this purpose.

THE UNIVERSITY AND THE STATE

If the University is to realize the ideal of "a campus as wide as the Commonwealth," it must know the natural resources, the people, the institutions, the needs of the whole State. Much of this knowledge can be acquired only as men from the University mingle with their fellow citizens in the cities, towns, and country-sides. With a view to understanding more intelligently the life of Minnesota, the President of the University has, since assuming office in the spring of 1911, visited more



The University of Minnesota

SEVENTEENTH BIENNIAL REPORT OF THE BOARD OF REGENTS



FISCAL YEARS ENDING
JULY 31, 1911, 1912

BULLETIN OF THE UNIVERSITY OF MINNESOTA
VOL. XVI, NO. 1. JANUARY 1913

Entered at the Post Office
in Minneapolis as second-class matter
MINNEAPOLIS, MINN.



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LETTER OF TRANSMITTAL

To His Excellency, Adolph O. Eberhart, Governor of the State of Minnesota:

SIR: The Board of Regents of the University of Minnesota herewith submits to you as its report of the status of the University and of its activities during the biennial period, the exhaustive report of the President of the University to the Board covering the period. No analysis by the Board of the facts presented could lead to other conclusions than those reached by the President. The recommendations expressed by him have been formulated in conference with the Board.

The period covered by the report marks a most important epoch in the life of the University. At the beginning of the last fiscal year President Emeritus Cyrus Northrop, after a long period of service covering more than a quarter of a century, retired from the presidency of the institution and was succeeded by the present incumbent.

The phenomenal growth of the institution during the incumbency of President Northrop is without parallel. The generous support of the people of the State, the contribution of individual citizens of their services and means, among whom the names of Pillsbury, Gilfillan, Shevlin, Elliot, and Ludden are entitled to especial recognition and mention, the patient labors of a self-sacrificing faculty, meagerly paid, were all contributing factors to this growth. But those who followed the work of the University from day to day realize more fully, perhaps, than the general public that the predominant factor in the growth and progress of the institution was the genial personality, the tact, the zeal, the wisdom, and the unbounded optimism of the President. His work is a heritage of all the people of the State and will always be lovingly remembered.

In the choice of his successor the Board exercised the care and solicitude that the importance of the work called for. It selected Dean George E. Vincent, of the University of Chicago. President Vincent came to the institution in the prime of his

manhood, with broad experience and a well-earned reputation for scholarship and executive efficiency. The Board believes that its choice merits and has the approval of the people of the State. The many projects furthered and inaugurated by the President for co-ordinating the work of the University in all its branches with the life and aspirations of the people has the approval of the Board and has been cordially received by the public.

He conceives the future of the University, not only as a retreat for individual attainment, but as a center radiating culture, knowledge, and efficiency throughout the State. This ideal of a State University is in harmony with the spirit of the times and will commend itself to the enlightened sentiment of our people. To realize these aims adequate support for the highest efficiency within the institution is indispensable. The Board has reduced all requests for new construction to a minimum, but it asks a substantial increase in the appropriation for support. The aggregate estimates, however, are less than the appropriations of two years ago by more than a half million dollars.

The Board is pleased to report that under the new business methods and systems of accounting, inaugurated under the direction of President Vincent, the business of the University is greatly facilitated and the Board is better able to know the exact condition of its resources at all times. Many economies have been made possible, the supervision by the Public Examiner's Office and the checking by the State Auditor are simplified and effective.

The University, like our State, is entering upon an era probably less marked in growth of population than formerly, but demanding greater thoroughness and higher efficiency in its activities to meet the requirements of a more complex and advanced civilization. Assuming that the University will continue to receive that generous statesmanlike treatment accorded it by the Legislature in the past, the Board looks forward to a period in its life under President Vincent that will be responsive to the new demands and as marked for usefulness, standing, and efficiency as was the incumbency of his predecessor for growth and development.

JOHN LIND, *President*

December 27, 1912.

NEEDS FOR THE BIENNIUM, 1913-1915

In formulating their requests in behalf of the University for the biennium beginning August 1, 1913, the Regents have been guided by the following principles:

A reduction of the aggregate amount requested.—The table which follows shows that the total asked for is ninety per cent of the sum granted by the last Legislature. The Regents realize that the University is only one of many institutions and that it can not expect to develop at the expense of these. The requests have therefore been carefully considered and reduced to what seems to the Regents a reasonable minimum. They believe that they can present convincing arguments for every item.

Men given precedence over buildings.—The building program has been reduced and the stress laid on funds for increasing the number of the teaching staff and paying better salaries to many able men and women now in the service of the University. No general percentage increase in salary, however, is contemplated. Efficiency and value to the University will be the determining considerations.

Widening the scope of Extension Work.—A substantial increase is requested both for agricultural extension and for the diffusion throughout the State of many other kinds of educational influence. The University desires to go to citizens in their homes and communities. The demand for this service is widespread and often insistent. This can not be met with the funds at present available.

Due regard for agricultural interests.—Of the total amount requested 35 per cent is desired for agricultural purposes. To this should be added the \$75,000 received annually from the Federal Government. Still other grants from the United States Treasury are likely to be made by Congress. The increase for extension will be largely devoted to demonstration farm and county-supervision work. The most valuable extension work is that which sends the expert adviser to confer with the farmer on his own farm.

TABLE I. SUMMARY OF THE UNIVERSITY'S NEEDS FOR THE BIENNIUM
ENDING JULY 31, 1915, COMPARED WITH THE APPROPRIATIONS FOR
THE BIENNIUM ENDING JULY 31, 1913

Purpose	1911-1913	1913-1915
<i>General Deficiency Appropriation</i>	\$ 130,000	
Made necessary by rapid increase of students and other demands upon the institution. (See Sixteenth Biennial Report, pp. 5 and 6.)		
<i>Deficiency for Hospital Support</i>	33,700	
To cover deficiency in support and to reimburse general funds amount advanced.		
<i>23-100 Mill Revenue Tax</i>	562,000	\$ 572,500
Estimated for both biennial periods by the State Auditor.		
<i>For Maintenance</i>	650,000	966,000
A general maintenance fund supplementing other revenues and applicable to any University purpose. Needed for increasing the number of the teaching staff and increases of salary.		
<i>Fuel</i> (University including University Farm).	70,000	120,000
The fuel for the single year ending July 31, 1912, cost \$72,728 or more than was allowed for the biennial period. Thus a heavy charge for heating fell upon the general funds. The new heating plants will economize fuel.		
<i>Special University Maintenance Appropriations</i>	381,200	462,000
For Law and General Libraries, repairs, Hospital support, research and publications, books and apparatus, University Extension, Mines support and Experiment Station, Geological Survey, see Table II.		
<i>Special Agricultural Maintenance Appropriations</i>	227,000	326,000
Agricultural Extension, repairs, library, and many groups of experimental projects, see Table III.		
<i>Buildings and Equipment</i>	1,761,980	1,089,950
For detailed and annotated list of structures desired, equipment required, etc., see Table IV.		
<i>Agricultural Schools and Sub-Stations</i>	482,290	333,500
For a detailed statement of building and maintenance funds requested, see Table V.		
Total.....	\$4,298,170	\$3,869,950

TABLE II. SPECIAL UNIVERSITY MAINTENANCE APPROPRIATIONS

Purpose	Granted 1911-1913	Requested 1913-1915
<i>Law Library</i>	\$ 10,000	\$ 10,000
<i>General Library</i>	20,000	40,000
The University Library falls far short of the needs of a great institution; the increase of volumes is a pressing need.		
<i>General Repairs for the University</i>	50,000	50,000
Needed for the proper maintenance of more than thirty buildings.		
<i>The University Hospital Support</i>	159,200	160,000
This hospital is not only an educational necessity, but renders an important public service to the indigent poor of the State.		
<i>Research and Publication</i>	20,000	20,000
The beginning of aid to scholarly investigation has justified itself and this subsidy should be continued.		
<i>Scientific Books and Apparatus</i>	50,000	50,000
Almost all departments of the institution are in need of more adequate and modern equipment.		
<i>University Extension</i>	20,000	80,000
It is planned largely to widen the scope and diffuse the influence of Extension Work in all parts of the State. Increased funds will be needed.		
<i>Mines Experiment Station</i>	20,000	20,000
It is proposed to maintain on its present basis this important service to the State.		
<i>Mines Standing Appropriation</i>	19,000	19,000
<i>Geological Survey</i>	13,000	13,000
The work of surveying the economic resources of the State is of great practical importance and of scientific value.		
Total.....	\$381,200	\$462,000

TABLE III. SPECIAL AGRICULTURAL MAINTENANCE APPROPRIATION

Purpose	Granted 1911-1913	Requested 1913-1915
<i>Repairs and Alterations</i>	\$20,000	\$35,000
This includes general repairs and alterations of twenty-nine buildings, many of them old.		

TABLE III—*Continued*

Purpose	Granted 1911-1913	Requested 1913-1915
<i>Campus Maintenance</i>	\$ 5,000	\$ 6,000
<i>Library</i> The library is inadequate for the needs of the Station, College, and School.	12,000	18,000
<i>Agricultural Extension</i> This includes dairy extension and premiums. There is insistent de- mand for enlargement of this work.	90,000	130,000
<i>Forestry Experiments and Support</i> A small increase is desired for en- largement of experimental forestry work.	26,000	31,000
<i>General Experiment Station Investigations and Research</i> These include studies of noxious weeds, plant diseases, farm manage- ment, field crops, tobacco, agri- cultural engineering, bacteriology, grain and flour, soils, fruit farm, horticultural crops, animal nutri- tion, live stock, poultry, insects, hog cholera, etc., etc.	74,000	106,000
Total.....	\$227,000	\$326,000

TABLE IV. BUILDING AND EQUIPMENT APPROPRIATIONS

Purpose	Amount Requested
<i>Addition to Anatomy Building</i> (with equip- ment)..... The Pathology Building is needed by the College of Education, and therefore to house the State Board of Health, and the departments of Pathology and Bacteriology, an ad- dition is planned to the Anatomy Building.	\$143,000
<i>Remodeling and Equipping Pathology Build- ing</i> To house the College of Education and the University High School, the observation and practice school of the College.	37,500
<i>Remodeling the Chemistry Building</i> This appropriation is asked in order to adapt the building to the use of men students as Shevlin Hall was erected for the use of the women students.	17,500

TABLE IV—*Continued*

Purpose	Amount Requested
<i>Sprinkler System and Wiring</i>	\$25,000
For better fire protection it is proposed to install a sprinkler system and to place electric wires in conduits in several buildings, which are not fire-proof.	
<i>Home Economics Building and Equipment</i>	75,000
To be located at the College of Agriculture for the use of all the women of the University, including the girl students in the School of Agriculture.	
<i>Addition to Heating Plant at the University Farm</i>	26,000
To provide heat and light for the present buildings, for those under construction, and for a margin of safety in extreme weather.	
<i>Gymnasium and Drill Hall at the University Farm</i>	90,000
There is at present no provision of this kind for the thirteen hundred young men and women on the Farm Campus.	
<i>Trolley Connection between the Main Campus and the University Farm</i>	60,000
A spur from the Como-Harriet line will carry students to or from in ten minutes. Thus much duplication of buildings and instruction, which would otherwise be necessary, can be avoided. The saving in the delivery of coal and building materials will in a few years equal the cost of construction. The Minneapolis Street Railway Company is ready to enter into a contract for operation on terms advantageous to the University.	
<i>Sundry Buildings, etc., at the University Farm.</i>	103,850
Icehouse and Cold Storage for Dining Room.....	\$20,000
Greenhouse.....	22,000
Veterinary Pathology Plant... \$16,750	
Minor Changes in Vet. Bldg... 1,500	18,250
Addition to Horse Barn.....	5,000
New Poultry House.....	4,000
Alterations to Chemistry Building.....	3,100
Addition to Dairy Hall.....	2,000
Plant Pathology Field House.....	2,000
Alterations in Dining Hall Basement...	1,500
Grading the Campus, New Fences, etc...	15,000
Purchases of Live Stock.....	8,000
Storage Cellar.....	500
Renewal of Boys' Dormitory Equipment	2,500

TABLE IV—*Continued*

Purpose	Amount Requested
<i>Timber Purchase at Cloquet.....</i>	\$8,600
The owners hold at the original purchase price standing timber three times this value and are ready to sell it to the State for the amount they paid.	
<i>Electrical Engineering Equipment with Repairs of Building.....</i>	20,000
The basement and attic of present building must be made available. The rapid advance in electrical science calls for modern equipment. Apparatus for electric lighting, electric railway motors and controllers, direct and alternating current motors and generators, telephonic and radio-telegraphic apparatus are especially needed.	
<i>Equipment for Experimental Laboratory in College of Engineering.....</i>	7,000
To include hydraulic installations with centrifugal pumps, piping for water, air, and steam; steam, gas, gasoline, and oil engines, air compressor, experimental steam turbine, road metals testing apparatus, etc.	
<i>Equipment for Machine and Wood Working Shops in the College of Engineering.....</i>	10,000
To supplement present equipment by modern effective metal and wood-working machinery such as lathes, boring and milling machines, drills, annealing furnace, etc.	
<i>Addition to Botany Greenhouse.....</i>	3,000
More space is needed for laboratory for students and for research work.	
<i>Equipment for College of Dentistry.....</i>	2,500
For additional microscopes, surgical instruments, sterilizers, pathological equipment, projection apparatus, etc.	
<i>Equipment for School of Mines</i>	6,000
To replace outworn ore-testing machinery and to provide equipment for metallography and electro-metallurgy, e. g., microscopes, electric furnaces, pyrometers, etc.	
<i>Equipment for the College of Science, Literature, and the Arts.....</i>	10,000
To replace and supplement laboratory equipment, especially in physics and animal biology and to supply furniture and fixtures in the largest college of the University.	

TABLE IV—Continued

Purpose	Amount Requested
<i>Biological Building</i>	\$200,000
The Regents have long recognized the great need for this building. The present laboratory facilities are entirely inadequate and even unsanitary in view of the large number of students pursuing these courses, which are required in the College of Science, Literature, and the Arts, Agriculture, Medicine, etc.	
<i>University Hospital Service Building and Equipment</i>	50,000
To afford space for the hospital laundry, store-rooms, general kitchen, dining rooms for officers, nurses, and help and quarters for the domestic help. The space thus released in the hospital will accommodate thirty additional beds for patients.	
<i>Women's Gymnasium and Equipment</i>	125,000
Twelve hundred women on the main campus are practically deprived of gymnasium facilities at present owing largely to the increased use of the Armory for Military Instruction and Drill.	
<i>To Redeem Outstanding Certificates of Indebtedness for Campus Extension</i>	70,000
This amount has already been levied and no further legislative action is necessary.	
Total.....	<hr/> \$1,089,950

TABLE V. MAINTENANCE AND BUILDING APPROPRIATIONS FOR AGRICULTURAL SUB-STATIONS AND SCHOOLS

Purpose	Amount Requested
NORTHWEST SCHOOL AND EXPERIMENT STATION, CROOKSTON	\$200,500
<i>General Maintenance School and Station</i> ...	\$79,800
The enlargement of the School and increase in Station work demand additional help. Certain increases in salary will be necessary.	
<i>Repairs and Alterations</i>	10,000
A number of the older buildings need repairing and altering to fit them for present needs.	

TABLE V—Continued

Purpose	Amount Requested
<i>Central Heating Plant and Water Softener..</i>	\$40,000
At the present time all buildings are heated by separate plants, three of which are in bad condition and criticized by underwriters.	
<i>Dormitory for Boys.....</i>	40,000
At the present time there is only one dormitory for boys and this is badly overcrowded.	
<i>Drainage, Sewage Disposal, and Greenhouse.....</i>	19,700
The sanitary condition has been criticized by the State Board of Health. The overflow from the various septic tanks now empties into a county drainage ditch which in warm weather becomes offensive. The greenhouse is needed, but will not be built unless sufficient balance remains after drainage and sewage disposal have been provided for.	
<i>Grain Storage and Cleaning.....</i>	6,000
Considerable quantities of seed grain are produced on the farm, but at present no facilities for storage and cleaning are provided.	
<i>Machine Shed.....</i>	2,000
<i>Swine Barn Addition.....</i>	1,000
<i>Grading Farm and School Grounds.....</i>	2,000
NORTH CENTRAL EXPERIMENT STATION, GRAND RAPIDS	
<i>General Maintenance.....</i>	\$14,000
WEST CENTRAL SCHOOL AND EXPERIMENT STATION, MORRIS.....	68,000
<i>General Maintenance.....</i>	50,000
The 1911-12 budget includes a deficit appropriation. The regular maintenance was \$39,500. The increase is due to the enlargement of the School and the development of the Station.	
<i>Alterations, Repairs, and Equipment.....</i>	18,000
This Station has a number of old buildings taken over from the Federal Government. These are being altered to meet the needs of the School and Station.	

TABLE V—Continued

Purpose	Amount Requested
NORTHEAST DEMONSTRATION FARM AND EXPERIMENT STATION, DULUTH.....	\$24,200
<i>General Maintenance</i>	\$12,200
<i>Clearing Land</i>	3,000
<i>Live Stock</i>	2,000
<i>Institute Hall</i>	7,000
Purchase of land, maintenance for 1912 and 1913, and certain buildings were provided by special appropriation, Chapter 142, General Laws 1911.	
SOUTHEAST DEMONSTRATION FARM AND EXPERIMENT STATION, WASECA.....	26,800
<i>General Maintenance</i>	7,800
<i>Feeding Sheds and Yards</i>	2,000
<i>Superintendent's House</i>	3,500
<i>Alterations and Remodeling Old Buildings</i> ..	5,000
<i>Drainage</i>	1,500
<i>Water System</i>	500
<i>Fencing</i>	1,000
<i>Live Stock</i>	5,000
<i>Seeds and Plants</i>	500
Purchase of land and maintenance 1912-13 provided from special appropriation, Chapter 142, General Laws of 1911.	
Total.....	<hr/> \$333,500

THE PRESIDENT'S REPORT

To the President of the Board of Regents of the University of Minnesota:

SIR: I herewith submit my report for the biennium ending July 31, 1912.

Mention of changes in the personnel of the staff is limited to persons of professorial rank.

Resignations.—Professor Ada Comstock, Dean of Women, resigned to accept the Deanship of Smith College. Professor Robert S. Kolliner withdrew from the Law School on account of ill health. Professor Willis M. West, head of the Department of History, retired to give his time to writing. Assistant Professor John Lee Coulter, on leave of absence from the Department of Economics and Political Science, withdrew to continue in the service of the Bureau of Labor in Washington. Assistant Professor William H. Tomhave accepted the headship of the Department of Animal Husbandry in Pennsylvania State College. Assistant Professor George Porter Paine withdrew from the Department of Mathematics to fill a professorship in Middlebury College, Vermont. Assistant Professor Robert B. Gibson resigned from the Department of Physiologic Chemistry. Assistant Professor Ralph H. Hess, Assistant Professor Edward K. Slater, Clinical Professor Everton J. Abbott also resigned during the biennium.

Retirements.—The following members of the Faculty have been retired and are in receipt of allowances from the Carnegie Foundation for the Advancement of Teaching: President Emeritus Cyrus Northrop; Assistant Professor Matilda J. C. Wilkin as Assistant Professor of German; Professor Henry Turner Eddy as Dean of the Graduate School and Professor of Mathematics and Mechanics, Emeritus; Professor Adam C. Hickman as Professor of Law in the Law School; Professor Arthur E. Haynes as Professor of Mathematics in the College of Engineering.

Leaves of absence.—Professor John C. Hutchinson and Professor George D. Shepardson were absent on sabbatical leave with half pay during the year 1911-12. Professor John H. Gray, Head of the Department of Economics and Political Science, was granted leave of absence without salary for the second semester to conduct an investigation under the auspices of the National Civic Federation. Professor Edward G. Quigley, of the College of Education, was granted leave of absence without salary for the year. Assistant Professor Josephine E. Tilden, of the Department of Botany, was assigned duty on half salary in connection with an expedition to Tahiti and New Zealand. The expenses for the trip were provided by friends of the University interested in botanical research. Professor Carl Schlenker, of the Department of German, was granted sabbatical leave for one year with half salary.



EXPERIMENTAL LABORATORY
COLLEGE OF ENGINEERING AND MECHANIC ARTS

Appointments.—The following appointments to positions of professorial rank were made during the biennium: George E. Vincent (from the University of Chicago) as President, C. G. Selvig as Superintendent of the Northwest Station and School of Agriculture, George H. Hayes as Comptroller, William R. Vance (from Yale Law School) as Professor of Law and Dean of the Law School, W. H. Emmons (from the University of Chicago) as Head of the Department of Geology and Director

of the Geological Survey, Edward S. Thurston (from the University of Illinois) as Professor of Law, Howard R. Smith (from the University of Nebraska) as Professor of Animal Husbandry, Margaret Sweeney (from Adelphi College, Brooklyn, N. Y.) as Professor of Rhetoric and Dean of Women, Ashley V. Storm (from the Iowa State College of Agriculture) as Chief of the Division of Agricultural Education, Edwin H. Hewitt, as Professorial Lecturer in Architecture, Lieutenant James B. Woolnough (U. S. A.) as Professor of Military Science, J. O. Rankin (from U. S. Department of Agriculture) as Editor of Agricultural Publications, J. Anna Norris (from the University of Chicago) as Director of Health for Women, John Spencer as Assistant Professor of Veterinary Medicine, Richard E. Scammon as Assistant Professor of Anatomy, O. M. Olson as Assistant Professor in charge of Demonstration Farms, Thomas G. Paterson (from Kansas State Agricultural College) as Assistant Professor of Animal Husbandry, Louis D. H. Weld (from New York University) as Assistant Professor of Extension Work in Economics.

STATISTICS OF REGISTRATION, ETC.

Collegiate students.—Table I shows the registration, for each of the years 1910-11 and 1911-12, of all students of collegiate grade, i. e., those who are pursuing courses based upon a full four-year high school preparation. The net loss of 54 for the year 1911-12 is due primarily to the full effect of substituting a five-year for a four-year course in Engineering and to the enforcing of the two-year college prerequisite and the drastic reorganization of instruction in the Law School. In so far as the decrease reflects a higher standard of educational efficiency it is to be heartily welcomed. The significant gains are in the College of Science, Literature, and the Arts, and in the College of Dentistry. The latter has been compelled to fix a limit to its number of students. An increase of 10 per cent in the enrollment of graduate students is gratifying.

Sub-collegiate students.—Table II exhibits the registration figures for sub-collegiate students. The large gain in totals is due to the rapid expansion in the summer school for grade

teachers, and the inauguration of a popular junior short course. Too much stress should not be laid upon these fluctuations in short course attendance. The registration in the regular six months' Schools of Agriculture, it will be noted, is the same for both years. Table III shows comparative figures for extension students. The evening classes in Minneapolis and St. Paul are more than holding their own. Correspondence teaching has had little opportunity and can not flourish until a staff and facilities are provided. Obviously the possibilities of extension work—except in Agriculture—have not as yet been grasped.

The general summary.—Table IV should not be given much weight. The totals are misleading. Groups of students so diverse in preparation, educational aim, and length of residence in the University can not be added into totals that have much meaning. For example, the total gain of 923 is practically in sub-collegiate, short-course students. The total to be kept in mind in comparing the University with other institutions is 4,057, the number of collegiate students registered in 1911-12.

Percentage of women students.—In the College of Science, Literature, and the Arts the percentage of women has risen from 56.2 to 57.7, and in the whole body of collegiate students from 35.5 to 38.2. The increase of the percentage of women in the sub-collegiate courses from 23.2 to 50.3 is due to the large increase in the attendance of teachers in the Summer School.

Degrees conferred.—In Table V appear lists of degrees con-

TABLE I. COLLEGIATE STUDENTS BY COLLEGES AND SCHOOLS, 1910-1912

COLLEGE OR SCHOOL	Year 1910-1911			Year 1911-1912			GAIN	LOSS
	Men	Women	Total	Men	Women	Total		
College of Science, Literature, and the Arts.....	710	911	1,621	742	1,016	1,758	137	....
College of Engineering and the Mechanic Arts.	420	....	420	377	....	377	....	43
College of Agriculture....	230	204	434	205	212	417	17	....
Law School.....	437	5	442	319	6	325	....	117
College of Medicine and Surgery.....	167	10	177	178	9	187	10	....
School for Nurses.....	....	17	17	....	22	22	5	....
College of Dentistry.....	206	....	206	244	3	247	41	....
College of Pharmacy.....	81	9	90	75	2	77	....	13
School of Mines.....	105	....	105	98	....	98	....	7
School of Chemistry.....	72	1	73	78	3	81	8	....
College of Education.....	33	79	112	14	89	103	....	9
Graduate School.....	94	50	144	101	58	159	15	....
Summer Session.....	188	269	457	227	250	477	20	....
Summer Session (Agriculture) .....	....	....	....	25	45	70	70	....
Grand Total of Collegiate Students (less duplicates).....	2,642	1,469	4,111	2,470	1,587	4,057	....	54

ferred in all colleges and schools for each of the years 1910-11 and 1911-12. In the College of Science, Literature, and the Arts the loss in the B.S. is a little more than made up by the gain in the B.A. Engineering shows the readjustment to the new degree B.S. (in Engineering). The heavy loss in Law reflects the changes which have been going on in that School. The sharp rise in Medicine and Surgery shows that this College has readjusted itself to its new standards. The increase in Dentistry discloses the enlarged demands which are being made upon that College.

TABLE II. SUB-COLLEGIATE STUDENTS, 1910-1912

SCHOOL	YEAR 1910-1911			YEAR 1911-1912			GAIN	LOSS
	Men	Women	Total	Men	Women	Total		
CENTRAL SCHOOL OF AGRICULTURE:								
Intermediate year.....	8	3	11	18	7	25	....	....
Class A.....	82	49	131	106	42	148	....	....
Class B.....	147	74	221	227	98	325	....	....
Class C.....	374	150	524	247	135	382	....	....
Total.....	611	276	887	598	282	880	....	7
N. W. SCHOOL OF AGRICULTURE:								
Students.....	104	35	139	122	37	159	20	....
WEST CENTRAL SCHOOL OF AGRICULTURE:								
Students.....	79	26	105	67	24	91	....	14
Total, Schools.....	794	337	1,131	787	343	1,130	....	....
SHORT COURSES:								
Traction Engineering..	145	....	145	38	....	38	....	107
Teachers' Summer School.....	15	23	38	51	838	889	851	....
Summer Forestry Course.....	4	14	18	....	....	....	....	18
Farmers' Short Course..	197	6	203	122	5	127	....	76
Junior Short Course....	....	....	....	203	107	310	310	....
Dairy School.....	100	....	100	96	....	96	....	4
School for Supervisors..	4	....	4	....	....	....	....	4
Total, Short Courses..	465	43	508	535	995	1530	....	....
Grand total, sub-collegiate students.	1,259	380	1,639	1,297	1,293	2,590	951	....

TABLE III. EXTENSION STUDENTS, 1910-1912

COURSES	YEAR 1910-1911			YEAR 1911-1912			GAIN	LOSS
	Men	Women	Total	Men	Women	Total		
Economics.....	215	263	13	276	61	....
Education (Correspondence).....	68	15	17	32	....	36
Economics (Correspondence).....	4	4	1	5	1	....
Total.....	287	282	31	313	26	....

TABLE IV. SUMMARY, 1910-1912

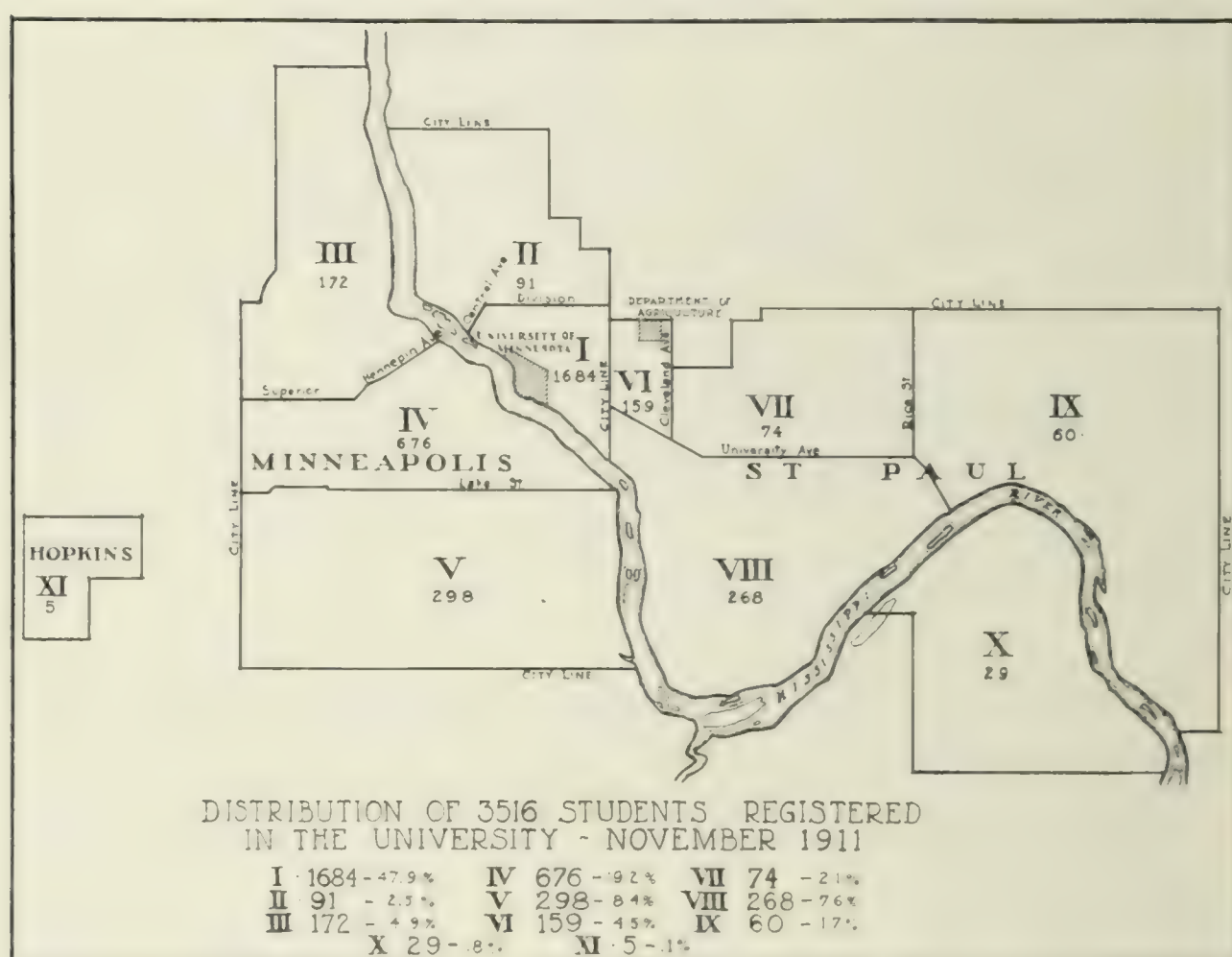
DIVISION	YEAR 1910-1911			YEAR 1911-1912			GAIN	LOSS
	Men	Women	Total	Men	Women	Total		
Collegiate Students.....	2,642	1,469	4,111	2,470	1,587	4,057	.....	54
Sub-collegiate Students...	1,259	380	1,639	1,297	1,293	2,590	951	.....
Extension Students.....	.....	.....	287	282	31	313	26	.....
Grand Total.....	.....	.....	6,037	4,049	2,911	6,960	923	.....

TABLE V. DEGREES CONFERRED, 1910-1912

COLLEGES AND DEGREES	YEAR 1910-1911			YEAR 1911-1912		
	Men	Women	Total	Men	Women	Total
SCIENCE, LITERATURE, AND THE ARTS:						
B.A.....	55	144	199	64	146	210
B.S.....	24	3	27	16	3	19
ENGINEERING:						
C.E.....	23	.....	23	5	.....	5
E.E.....	29	.....	29	6	.....	6
M.E.....	10	.....	10	5	.....	5
B.S. (Science and Tech.).....	2	.....	2	1	.....	1
B.S. (in Eng.).....	.....	.....	.....	49	.....	49
AGRICULTURE:						
B.S. (in Agri.).....	11	.....	11	8	.....	8
B.S. (in For.).....	17	.....	17	13	.....	13
B.S. (in Home Econ.).....	.....	9	9	.....	14	14
LAW:						
D.C.L.....	1	.....	1	.....	.....	.....
LL.M.....	10	.....	10	.....	.....	.....
LL.B.....	105	.....	105	54	1	55
MEDICINE AND SURGERY:						
M.D.....	19	.....	19	36	1	37
*Completed Course.....	6	.....	6	.....	.....	.....
Graduate in Nursing.....	.....	.....	.....	.....	7	7
DENTISTRY:						
D.D.S.....	49	.....	49	62	.....	62
PHARMACY:						
Phm.B.....	20	3	23	11	1	12
MINES:						
E.M.....	26	.....	26	23	.....	23
CHEMISTRY:						
B.S. (in Chem.).....	10	.....	10	13	.....	13
B.S. (in Chem. Eng.).....	3	.....	3	.....	.....	.....
Chem.E.....	.....	.....	.....	2	.....	2
B.S.....	.....	.....	.....	3	.....	3
EDUCATION:						
B.A. (in Educ.).....	7	27	34	2	39	41
GRADUATE:						
M.A.....	15	11	26	11	11	22
M.S.....	5	2	7	8	.....	8
Ph.D.....	1	.....	1	2	.....	2
M.F.....	.....	.....	.....	1	.....	1
Grand Total.....	448	199	647	395	223	618

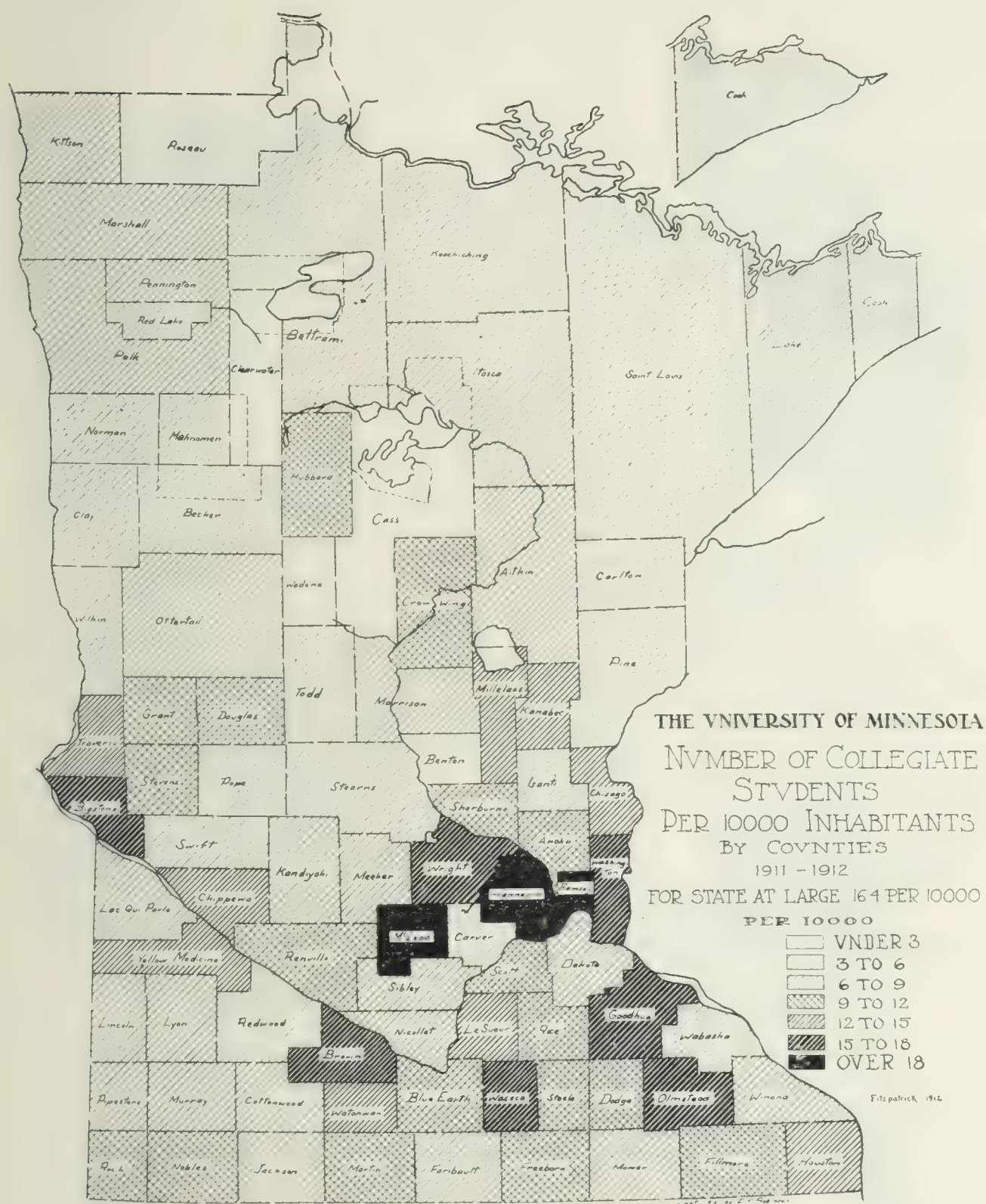
*Received degree from Hamline University.

Local distribution of students.—The accompanying outline map shows where the 3,516 collegiate students registered in November, 1911, were living. Of the 1,684 who were quartered in the district immediately surrounding the University Campus 332 men were lodged in fraternity houses, 62 women in sorority houses, and 90 women in Sanford Hall, the University dormitory for women. Of the remaining 1,200 students a good many undoubtedly were living at home or with relatives. It is safe

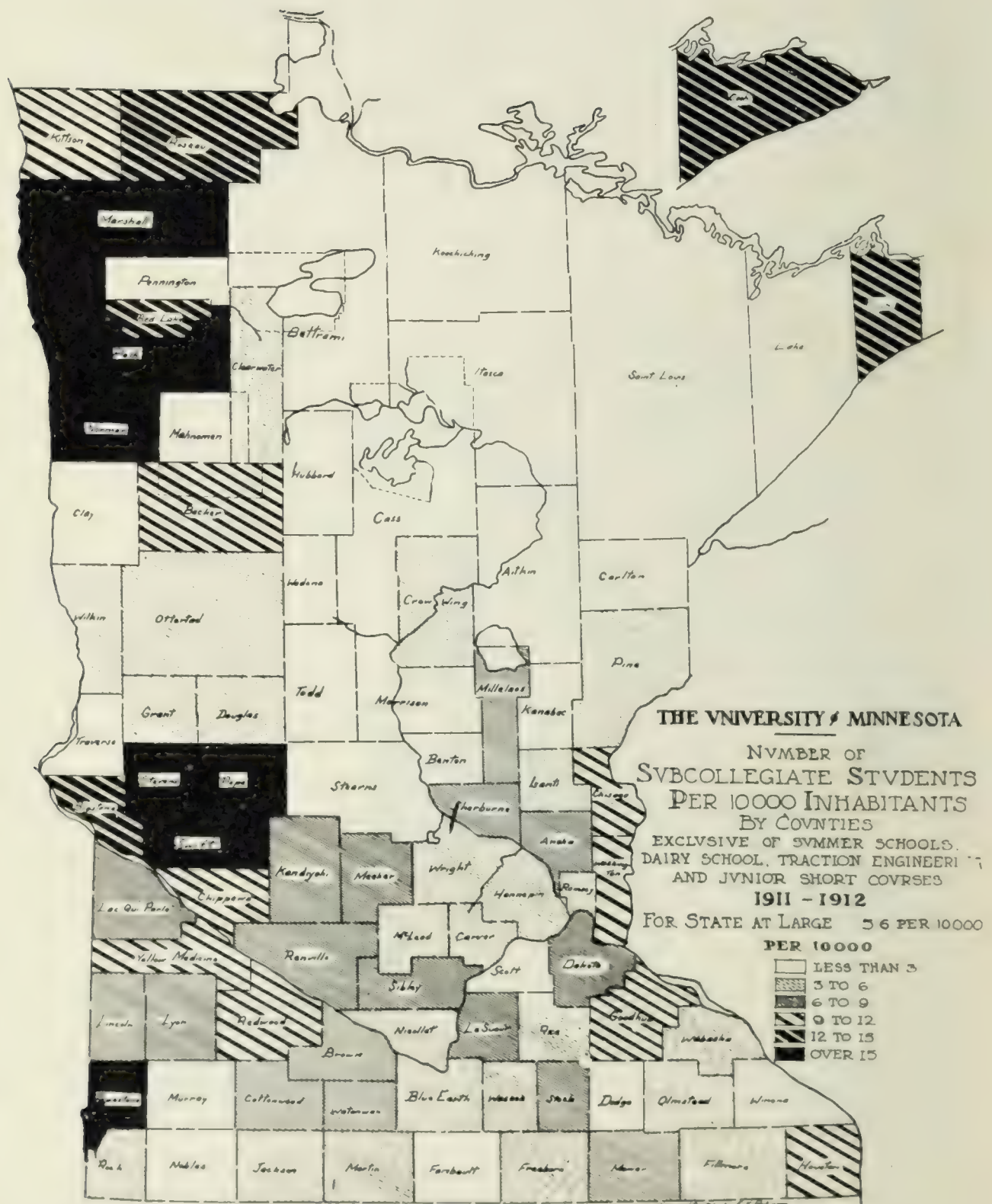


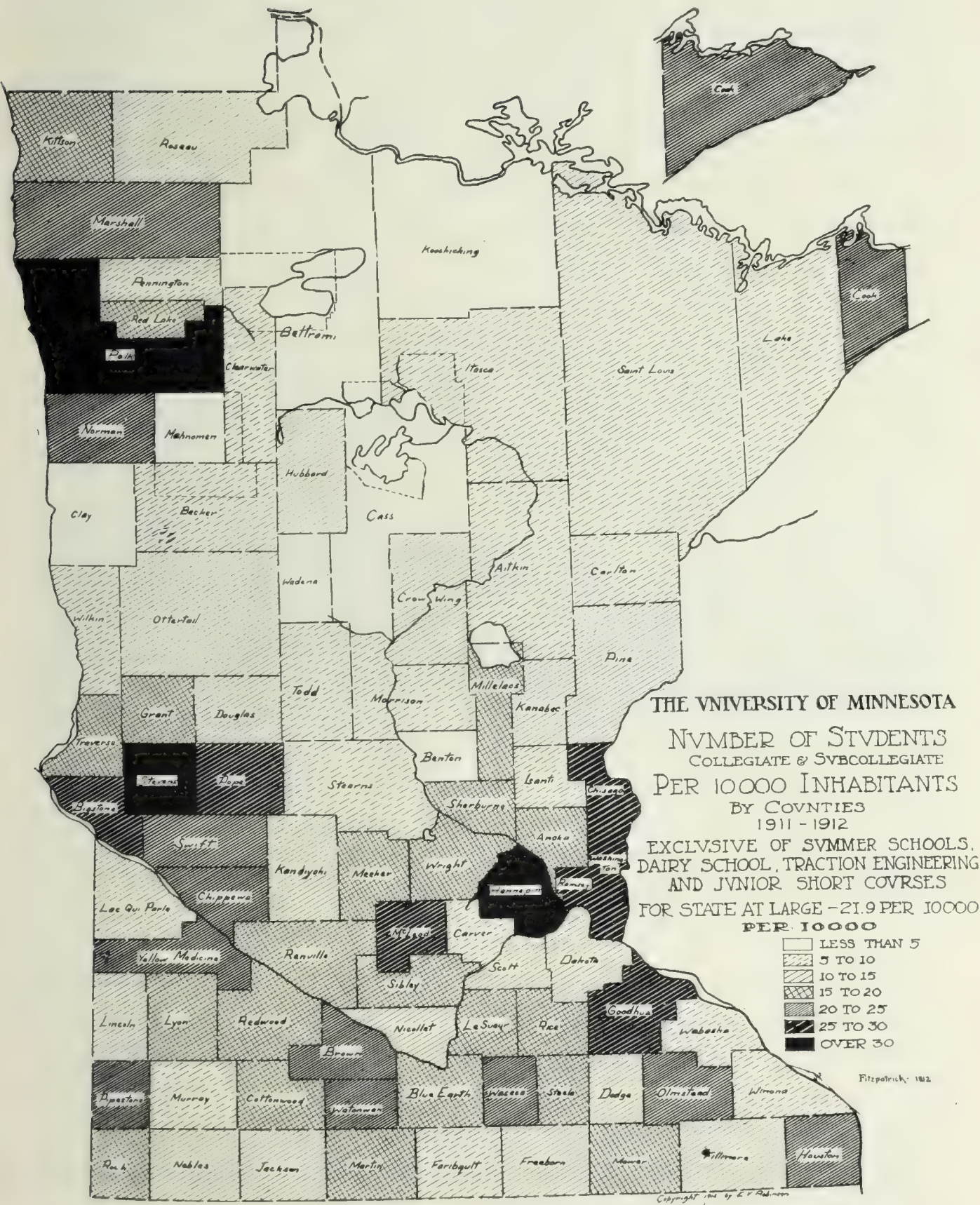
to conclude that between one thousand and eleven hundred students find their quarters in boarding houses or with private families in the southeast district. Of the students whose addresses fall in other sections of the two cities and their suburbs, the overwhelming number unquestionably live either with their parents or with relatives. A detailed study of the living conditions of the students at the University is being planned. Results will be published in the next report of the President.

Geographical distribution of students.—Of the collegiate students registered in the second year of the biennium 392, or 10.4 per cent, came from outside the State of Minnesota. Of all



NOTE.—This and the following maps were prepared under the direction of Assistant Professor Louis D. H. Weld by the statistical laboratory of the Department of Economics and Political Science. This laboratory has also rendered valuable service in preparing many of the statistical tables which appear in this report.





the collegiate students 55.9 per cent are registered from Hennepin and Ramsey counties. If students from outside the State be deducted, of the remainder 62.4 per cent come from these two counties. Of the sub-collegiate students, 22.4 per cent are registered from Hennepin and Ramsey counties. If the two groups be combined, the percentage from the two cities and vicinity is 47.8 per cent. About 26.8 per cent of the population of the State live in this region. A per capita distribution of students therefore would naturally call for at least the same percentage from these two counties. The fact that this percentage is markedly exceeded is to be attributed not only to the fact of proximity, but undoubtedly to a considerable degree to the immigration of families who come to Minneapolis and St. Paul for the specific purpose of entering their sons and daughters in the University. The apparent concentration is still further emphasized by the fact that more advanced students have a habit of registering from the cities even though their actual homes are in other parts of the State or in other states. The validity of this view is proved by the statistics of high school preparation. While 55.9 per cent of the students were registered from Minneapolis and St. Paul, only 40.8 per cent were prepared for the University in the High Schools and preparatory schools of these two cities. So, too, while 33.8 per cent report their residences from outside the cities, 39.2 per cent were prepared in outside High Schools. As to the 10.4 per cent who give their residences as outside of Minnesota, 17.9 per cent were actually prepared in secondary schools beyond the boundaries of the State. These figures make clear the tendency of families and individuals to move from the towns and villages of the State into the urban centers and then to give their addresses as permanent residents of Minneapolis and St. Paul. The significant fact is that Minneapolis and St. Paul High Schools prepare for the University only about 10 per cent more students than the per capita distribution of population would assign to them. The maps on pages 21, 22, and 23 show in graphic form the per capita distribution of students by counties.

FINANCES

The University living within its income. — The Regents have adopted the policy of keeping the expenditures of the institution

rigidly within the resources made available by the Legislature and by fees, etc. The rapid and unexpected growth of the institution in its early years often left no alternative between doing injustice to students and overrunning somewhat the income available. With the establishment of more stable and predictable conditions it is now expected that the University will soon be in a position where the policy of living within its income will be compatible with educational efficiency. In any event this policy will be maintained.

The budget system.—The Comptroller's report describes the budget system, by means of which the expenditures of the



MAIN ENGINEERING BUILDING
COLLEGE OF ENGINEERING AND MECHANIC ARTS

University are kept carefully within the limits decided upon at the outset of the fiscal year. The University budget is based upon these principles: 1, a conservative estimate of receipts; 2, a generous estimate of expenditures which must show 3, a safe margin of unassigned reserve; 4, the assigning to each college and department of the University of a specified sum for salaries, wages, equipment, supplies, etc.; 5, a requisition system by which no expenditure can be made until the Comptroller has certified that the funds are available and the Budget Committee or the Executive Committee or Board have approved the expenditure; 6, the scrutiny month by month of the balances in the

various budget accounts in order that the administration may know that the limits of the budget are not being exceeded.

A surplus for the year.—This budget system went into effect with the beginning of the fiscal year 1911-12. A number of uncertain factors made a policy of conservation necessary. The amount of outstanding obligations was unknown and a reserve to meet these had to be kept in hand. Estimates of receipts were reduced to a point of complete safety. In some instances the actual income considerably exceeded these original estimates. Departments were urged to purchase cautiously in order to save a margin for emergencies. As a consequence there was actually at the end of the year in addition to the regular budget reserve a considerable surplus. It should be remembered, however, that this was accomplished only at a sacrifice of educational efficiency. Additional instructors were sorely needed, more adequate equipment and supplies should have been purchased, but all these needs were subordinated to the policy of business-like administration. In the light of a year's experience with the new system it will be possible to plan more closely and to reduce somewhat the annual surplus. The time will never come, however, when it will not be necessary to carry over from year to year a reasonable reserve as a protection against unexpected and unpredictable demands.

Changes in the scale of tuition fees.—On the recommendation of the Deans the Regents adopted the following scale of tuition fees, to take effect with the academic year, beginning September 1, 1912:

TABLE VI. SCHEDULE OF STUDENT FEES

DIVISION	RESIDENT	NON-RESIDENT
College of Science, Literature, and the Arts.....	\$30.00	\$60.00
College of Engineering and the Mechanic Arts	50.00	50.00
College of Agriculture.....	30.00	60.00
Law School.....	65.00	65.00
College of Medicine and Surgery.....	150.00	150.00
College of Dentistry.....	150.00	150.00
College of Pharmacy:		
Two-year course.....	82.50	82.50
Three-year course.....	55.00	55.00
School of Mines.....	55.00	55.00
School of Chemistry.....	55.00	55.00
College of Education.....	30.00	60.00
The Graduate School.....	30.00	30.00

The effect of these fees is slightly to increase the revenue from the body of students as a whole. All laboratory fees which

heretofore have been listed as separate items are merged in inclusive fees. The double fees to non-residents have been dropped in the case of the College of Engineering and the School of Mines and the School of Chemistry. In most cases these fees are higher than those which prevail in the leading state institutions of the Middle West. It is a question whether in the attempt to secure additional revenue the principle of free higher education has not been overlooked. If so considerable an amount is to be levied upon students who attend the University, a serious question arises: "Are higher educational opportunities to be in any sense limited to the economically strong?" Much is to be said for a system by which fees are to be charged and then free scholarships provided for students who need assistance and who show that they deserve it. In the professional schools, especially, the relatively high fees ought to receive careful consideration. Here there is real need for free scholarships. Those who believe in higher education, can render no more valuable service than by co-operating with the State in endowing scholarships for promising but needy students.

Economy and Efficiency.—The Comptroller calls attention in his report to delays in the payment of bills, delays which prevent the University from securing the best prices and the advantage of cash discounts. He points out also that by providing a central storehouse the University could centralize a good many purchases which are now made in small lots but under another system might be aggregated into orders for large quantities. While marked progress has been made in securing business efficiency, there are many ways in which the business department will be able to effect further economies. Inquiries are being set on foot to determine how economically the buildings of the University are being used. Obviously all the available space should be in service for the maximum length of time each day or week. Another field for investigation is the duplication of equipment, machine shops, and various types of apparatus. It is not believed that up to the present time such duplication has taken place in any wasteful way, but a careful inquiry will be instituted and certain principles will be laid down. Responsibility for the large amount of valuable apparatus and equipment owned by the University has been fixed upon an officer in the Comptroller's Department. It is the business of this person to visit the various

departments and to check up periodically the apparatus, supplies, etc., which appear in the official inventories. It is possible to push the likeness between an educational institution and a large business too far, but there is also danger that the University may overlook a good many of the methods by which ordinary business houses effect economies and increase their efficiency. It is the aim of the University of Minnesota to conduct its affairs in a business-like, economical way at the same time that it safeguards the educational opportunities for which it was founded and exists.



NEW MILLARD HALL
COLLEGE OF MEDICINE AND SURGERY

Records of University land.—The University has never had in its own possession a complete record of its own lands. During the last few months a man has been employed to make such a record. He has discovered that a considerable number of acres due the University have not been designated. Steps will be taken to rectify this error. This whole work when completed will provide an authoritative and accurate list of all lands which belong to the institution.

PHYSICAL PLANT AND EQUIPMENT

The Library.—A large, well-selected, steadily growing, properly housed library is the very center of a true university. The subdivision of human knowledge is so minute, the accumulation of books so great, and scientific publication so voluminous that a large staff is needed to select, classify, and catalogue these resources. The present is so dependent on the past that thousands of volumes, series of periodicals, source materials of many kinds must be available if really advanced instruction, to say nothing of investigation, is to be carried on. The report of the Librarian sets forth clearly the needs of the Library, and gives a table which shows that, judged by the number of volumes in its library, the University of Minnesota has much ground to gain before in this respect it can enter the first class of educational centers. The Public Library of Minneapolis and the State Historical Society Library in the Capitol must be reckoned as important contributing agencies in making books available for University students.

Books and apparatus.—The \$25,000 a year available for the purchase of books and apparatus has been economically expended and has increased the efficiency of all departments of the University. The actual needs, however, are far from met. Many of the scientific departments can not do effective work especially in research unless the funds available for the purchase of apparatus are considerably increased.

University architecture.—The new type of building adopted by the University is simple, dignified, and appropriate for a state institution. The lighting is exceptionally good and increases materially the educational efficiency of laboratories, lecture and class rooms. The construction throughout is fire-proof, and, while ornamentation and decoration have been reduced to a minimum, there has been none of the false economy which effects an initial saving at the expense of ultimate cost for repairs and renewals. The type that is now established will be followed, with individual variations, in all of the new buildings of the institution. The halls and laboratories which face the main Plaza on the new campus will of necessity receive more monumental treatment, but even the façades of these buildings will not give the effect of extravagant ornamentation.

New buildings.—In September, 1911, the Elliot Memorial Hospital Building was opened to the public. In August, 1912, the New Main Building and the Experimental Laboratory of the College of Engineering and Mechanic Arts were occupied. The New Millard Hall and the Institute of Anatomy were also practically finished in August of 1912 and were being equipped for use for the next academic year. Work upon the Central Heating Plant is progressing rapidly and it is expected that steam from the new boilers will be turned on early in January, 1913. The new Mechanic Arts Building and Shops for the Department of Agriculture is well under way and will be ready for use in the spring of 1913. The additions to the dormitory and dining-hall accommodations for the Central School of Agriculture were completed and occupied during the biennium. All the new buildings for the Sub-Stations and Schools were either available during 1911-12 or were rapidly approaching completion. Various minor additions, barns, etc., authorized by the last Legislature, have been put in service.

Delay in building the Chemistry Laboratory.—The Legislature of 1911 provided a total of \$405,000 for a new Chemical Laboratory. In the summer of 1911 the Dean of the School of Chemistry visited the chief chemical laboratories of Europe and of the United States with a view to securing the latest information. Through miscalculation in the original estimates the appropriation was found inadequate to build the Laboratory which the School desired. Plans were repeatedly drawn and re-drawn with the hope that the original scheme might be at least approximated. When at the end of February, 1912, old Millard Hall was burned, the experts reported that the building could not be re-constructed. It was then proposed that the fire insurance from this Hall be added to the remodeling appropriations, that the Chemistry Laboratory be built on the enlarged scale, and that the College of Dentistry be quartered in this building for the next few years. It was planned to ask at the special session of the Legislature in June for authority to make this transfer of funds. When the Legislature decided to consider only the measures included in the call of the Governor, this idea was abandoned. The Governor, the Attorney General, and the State Auditor were asked under the authority of an act giving them power to make appropriations in emergencies, to

authorize the transfer of the fire insurance money and the special remodeling appropriation to the Board of Control for the completion of the Chemistry Building. These officials, however, deemed the situation not an emergency within the meaning of the act. Therefore, in the summer, it was necessary to go back to the original appropriation and to begin again an attempt to use the money in the most effective way. It is expected that the contracts for the building will be let some time in January, 1913. The Regents will make no request for an additional appropriation for this building, but will do the best that can be done within the limits of the funds available.

Remodeling of old buildings.—In February, 1912, old Millard Hall, occupied by the College of Dentistry and in part by the College of Medicine and Surgery, was so seriously damaged by fire that at first the architects deemed it unwise to attempt the fire-proofing which had been authorized by the Legislature of 1911. After further consideration, the experts decided that the condition of the exterior walls justified the remodeling and the continued use of the structure. It is expected that this will be ready for occupancy by the Department of Pharmacy in the spring of 1913. The old Anatomy Building, adjacent to Millard Hall, will be rebuilt as a medicinal plant house. As soon as the Medical Science Building was vacated by the College of Medicine and Surgery in the early summer, the work of remodeling this building for the use of the College of Dentistry was pushed vigorously. At the end of August it was clear that the work would be completed in time for the opening of the new University year. When the Pharmacy Department has been transferred to its new quarters, the College of Dentistry will be admirably housed and equipped. The new operating clinic will be supplied with 125 chairs. The equipment of laboratories, shops, and operating rooms will be of the most modern type.

Heat and light.—The new Central Heating Plant on the river bank will be connected with all buildings through main and lateral tunnels and shafts cut in the sandstone which underlies the campus. The new plant, equipped with six boilers of 350 horse-power will easily supply with steam all the present buildings and the new Chemical Laboratory, for which the contracts will soon be let. There will be a margin of capacity for the heating of still other buildings. The power house has been so

constructed that new boilers may be added as the growing demands of the institution may require. One of the advantages of the new plant will be the elimination of the smoke which heretofore has come in such volume from the University stacks. The institution hopes to set an example of good engineering, of economical operation, and of regard for the community. Pending the development of the high-dam project it has been deemed unwise to recommend at present the installing of machinery for producing current from the exhaust steam of the heating plant. A contract, terminable on reasonable notice, has therefore been entered into with the Minneapolis General Electric Company for the supplying of current to supplement that which is generated in the old power house of the College of Engineering and Mechanic Arts. A comprehensive lighting plan will have to be worked out for the future. The University can not afford long to continue to purchase light and power on the present terms.

Grounds, maintenance, etc.—The large amount of building under way on the new campus has made it impossible to do any grading except in the vicinity of the Elliot Memorial Hospital. A number of years must elapse before this part of the University grounds can be made to assume its proper appearance. It is to be hoped, however, that the more unsightly features of this section can be removed, large areas graded, and the beginning of orderliness created. An arrangement with the city by which Pleasant Street is to be macadamized will bring about a long-needed improvement. When this work is completed, all the avenues on the old campus will be well surfaced. Plans are under way for using the surplus earth from the new campus to raise the level of the parade ground. The present grade is so low that it is impossible to keep this area covered with turf.

ADMINISTRATIVE CHANGES

The Comptroller.—On May 4, 1911, the Regents created the office of University Comptroller and provided that he should be appointed by the Board on the nomination of the President of the University, should serve as Secretary to the Board, act as Purchasing Agent as provided by law, have charge of all business affairs of the institution and act as the official channel

of communication between the Board of Regents and the Board of Control. Mr. George H. Hayes was appointed to this position.

The Deans' Committee.—The Deans of the colleges and schools have, with the President, formed a central administrative committee that has attempted to see the interests of the University as a whole at the same time that it has consulted the welfare of each of the constituent units. The spirit of mutual consideration and loyalty displayed by this group has been gratifying and full of promise for the future.



THE INSTITUTE OF ANATOMY
COLLEGE OF MEDICINE AND SURGERY

The University Senate.—On May 6, 1912, the Regents adopted on the recommendation of the University Council a constitution for the University Senate. The constitution recognizes the autonomy of the various colleges and schools of the University, and at the same time establishes a central body to which are entrusted the interests and welfare of the University as a whole. The Senate is not made up of representatives of the various colleges, but includes all teachers of the rank of Professor and Associate Professor throughout the institution.

The Associate Professorship.—The Regents have re-established the academic rank of Associate Professor. This type of professorship is administratively useful. It affords an opportunity to test men who have established their right to be promoted from an assistant professorship, but whose qualifications for a professorship are still in doubt. It provides a permanent position of dignity for men whose value to the University is unquestioned, but whose fitness for the highest academic rank is not convincingly demonstrated. An Associate Professor is by virtue of his position a member of the University Senate.

Appointments for definite periods.—The Regents have revived the policy of appointing instructors for periods of one, two, or three years. Appointments to Assistant Professorships are ordinarily made for a period of four years and to Associate Professorships for a term of five years. Professorships remain as indeterminate appointments. The policy of making periodic appointments for the lower academic ranks is obviously in the interests of good administration and for the protection of members of the staff. An instructor has the right to know at fixed intervals whether his service is satisfactory. The Assistant Professor in the same way ought to have the question of his promotion or the increase of his salary come up for decision at a definite time.

University Extension Board.—In furtherance of the policy of developing the extension work of the University, the Regents have authorized the appointment of a University Extension Board, and have created the position of Director of University Extension. The Board at present includes the President of the University, the Director of University Extension, and representatives from all the colleges under the auspices of which University Extension Work is being offered. With the organization of the Senate this Board will become one of the standing committees of that body.

The status of the Dean of Women.—The position of Dean of Women in the University of Minnesota has been the subject of gradual development. With the appointment of a new Dean of Women a further step has been taken in defining the status of this deanship. The Regents have recognized this position as a university, rather than a college, office. The Dean of Women is not only a member of the committees on student work in the

colleges which enroll women, but she is the administrative officer through whom all women communicate with these committees concerning college work.

Committees of the Board of Regents.—These committees have been reduced in number and the membership re-arranged. In place of a number of special committees, which have been abolished, individual members of the Board have been designated as consulting members. With reference to certain special interests the President of the University confers with these consulting members.

Codification of the rules of the Board.—Under the authority of the Regents, a card catalogue of the actions of the Board has been made, and will be used as a basis for codification of the rules of the Board of Regents. This will be put in printed form and used as a guide for action. It will be formally amended as the rules of the Board are modified.

Printing Committee.—Progress has been made in creating uniform standards of printing for the various official publications of the University. A University printing committee has studied questions of typography, paper, etc., and has established forms which are now being followed in all the publications of the institution.

Weekly Calendar, Postal Delivery, Bulletin Boards.—In an effort to draw the University into closer unity a number of devices have been employed. A weekly University Calendar, containing announcements of University and college exercises, public lectures, committee meetings, student gatherings, etc., is issued from the President's office and posted on bulletin boards throughout the grounds and buildings of the institution. In connection with the University Post-Office, regular deliveries of mail to and from the different buildings have been established.

EDUCATIONAL POLICIES

Reorganization of the Law School.—The Regents have approved the plans for reorganization submitted by the Faculty of the Law School. These plans include the increasing of the number of hours required of candidates for the degree of Bachelor of Laws from 1,000 to 1,200, the introduction of the case-book system of instruction, originally worked out by the Harvard

Law School, the reorganization of the courses on a semester basis with semester examinations, and the withdrawal of the degree for night law work. Night instruction in law is continued in connection with the Division of University Extension.

Assignment of Shevlin Fellowships.—The Board has voted to place the administration of the four annual \$500 fellowships in charge of the Graduate School with instructions to assign these one each to the Arts College, the College of Agriculture, the School of Chemistry, and the College of Medicine and Surgery. It is further provided that Shevlin Fellows are to do no assisting or teaching, but to devote themselves wholly to study and investigation. They are exempted from paying incidental fees.

Combined Course in Arts and Law.—By an arrangement between the Law School and the College of Science, Literature, and the Arts, a combined six years' course leading to the degrees of B.A. and LL.B. has been organized and has received the sanction of the Board of Regents. By this arrangement academic seniors may count the first year in the Law School as the fourth year of candidacy for the Bachelor of Arts degree.

Seven-year Medical Course.—As a result of a conference with regard to the seven-year medical course, which is a combination of two years of preparation in the College of Science, Literature, and the Arts and five years of medical work, certain minor changes in the curriculum have been made. A regulation has also been adopted which requires a student who is a candidate for the degree of Doctor of Medicine to receive his B.A. or B.S. degree before the higher degree is conferred.

Five-year Course in Mining, a course leading to the degree of Engineer of Mines in Geology and extending five years beyond high-school preparation has been established in the School of Mines at the request of that division and the requisite course of study has been approved.

Entrance requirements.—Four years ago at the request of a committee of the high school men of the State, the University agreed to impose a qualitative as well as a quantitative requirement for admission to the University. As a consequence all but two of the colleges required that the various subjects presented on certificate by students seeking admission be appraised with three marks: —“passed,” “passed with credit,” or “passed

with honor." The value of these designations in percentages is also indicated. Each mark below "passed with credit" was counted as a condition, and an applicant having more than three conditions was excluded. Last year the rule was so modified as to exclude from the University a student who has not an average of "pass with credit." A "pass with honor" is regarded as offsetting a mere "pass." With the September registration, 1912, this new requirement becomes operative in the College of Science, Literature, and the Arts and in the College of Agriculture.

During 1911-12 the University in conference with the representatives of the High Schools has extended the number of admission units accorded to vocational subjects to three units in the College of Engineering and Mechanic Arts, where before only two units were recognized. Not more than one unit each of free-hand drawing, mechanical drawing, and shop work, not more than two units in agriculture, and not less than two units in stenography and typewriting, may be offered. This change in Engineering brings about approximate uniformity in the three large undergraduate colleges, namely, Science, Literature, and the Arts, Engineering, and Agriculture. In the colleges of Science, Literature, and the Arts, and Agriculture, four vocational units are accepted.

Advanced standing from Normal Schools.—The Regents have approved the recommendation of the Faculty of the College of Education that credit for two years' work toward the degree Bachelor of Arts in Education be granted to graduates of Minnesota State Normal Schools who have in addition to regular high school courses completed two years of work, received the certificate of a Normal School, and been recommended by its President.

Requirements for graduation.—The regulations of the College of Science, Literature, and the Arts require candidates for the Bachelor's degree to secure an average of "good" in half of their work. The object of this rule is to prevent the winning of a degree by the mere passing of so many hours of work. There is some ground for questioning whether this regulation is in practice accomplishing the desirable end which has been set up. There is reason to believe that the marking system ought to be more thoroughly discussed and a much more uniform practice

be introduced not only in the Academic college, but throughout the University as a whole. This is one of the problems which the University Senate will be asked to consider.

A Committee on Research.—The fund of \$10,000 which was granted by the last Legislature for research and publication has been apportioned by the Board of Regents on the recommendation of a research committee of the Graduate Faculty. This committee has received all applications for research subsidy, has interviewed the applicants, and has recommended a research budget. It is believed that in this way, the fund has been carefully apportioned and has been used with wisdom and efficiency. The list of subsidies for research will be published in the report of the President for 1911-12.

The Geological Survey.—In accordance with the authority obviously implied in the legislative appropriation for the purpose, the Regents established in the spring of 1911 a Geological Survey and appointed W. H. Emmons, Head of the Department of Geology, director. The work of the Survey has been pushed steadily. Results will soon be published.

A Research Bureau in Agricultural Economics.—By action of the Regents in November, 1911, a Bureau of Research in Agricultural Economics was established in the Department of Agriculture. Until recently efforts have been chiefly expended upon helping the farmer to increase the productivity of his land. The time has come to aid him in the marketing of his produce. The Bureau will undertake special studies and issue reports concerning the marketing of different commodities. It will investigate various kinds of organizations of producers. It will give attention to the vital question of agricultural credit. It will report upon systems of land titles, methods of transfer, etc. It will make special detailed surveys of rural communities. The results of studies and investigations will be published in practical bulletins of information.

A Department of Agricultural Education.—Minnesota is an acknowledged leader in the fostering of agricultural education. The device of direct subsidy from the State treasury has a remarkably stimulating effect upon local school ambition and activity. The widespread introduction of vocational education has suddenly created a demand for teachers of manual training, domestic science, and agriculture. The chief danger which now con-

fronts this educational advance is a temporary reaction due to the lack of well-trained instructors who have a liberal conception of their work, both in its scientific and its social aspects, and who have had sufficient practical experience to give them influence in the community. The University recognizes its duty to provide a training for the teachers of vocational subjects. This training must be at once broad in its basis and technically efficient in its specialization. The Regents have therefore established a Division of Agricultural Education in the Depart-



NEW ADDITION TO DINING HALL
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ment of Agriculture, but in close co-operation with the College of Education. For the head of this department one of the recognized leaders of agricultural education has been secured. Under his guidance a four years' college course designed to train teachers of agriculture and allied subjects will be organized and a competent staff appointed. It is believed that by this step the University is fulfilling a duty and insuring to the State a permanent leadership in the newer type of education.

The Summer Session.—The courses offered under University auspices for the six weeks following Commencement fall into two groups: those for students of college grade, and those for sub-collegiate constituency, chiefly grade teachers. The latter courses are conducted under the auspices of the Department of Agriculture at St. Anthony Park. The possibilities of this type of school are being recognized and progress is being made. The collegiate courses, however, are almost wholly of an introductory character. They deal with elementary subjects. No graduate work and few advanced courses are available. Under these conditions a large registration is not to be expected. The policy of organizing the summer work on a larger scale should be immediately considered. A number of the professional schools have raised the question of offering summer instruction. It is uneconomical to have a great university plant lying practically idle for three months.

University Extension.—Heretofore extension work by the University has been limited to Agricultural Extension, to night courses in Economics and Political Science, to correspondence work, and traveling supervision in education, and to a limited number of popular lectures delivered by members of the University staff. In June, 1912, eighteen towns were reached by a series of "University Weeks" (see *University Extension*, p. 58).

New Experiment Farms.—Under the authority granted by the last Legislature, experiment farms have been purchased at Duluth and at Waseca. It is the purpose of the administration to work out upon these farms problems of peculiar interest to the regions in which the farms are located. It is planned, moreover, to give each of these farms an individual character by concentrating upon some special undertaking. For example, it is planned to breed at the Waseca Farm certain types of horses and cattle. It is hoped that these farms will not only prove important centers of scientific experiment, but that they will also be available for practical demonstrations and will be visited by large numbers of farmers in the regions which are served.

THE TEACHING STAFF

Classification of the teaching staff.—The total number of the Faculty has little significance until it has been analyzed. Table

VII shows the number of men of each of the academic grades who are giving full time or part time to the service of the University. Of the service of the deans and administrative officers, approximately half time is given to instruction. In the professional schools, notably Medicine and Surgery, and Dentistry, many men are giving a varying amount of time to teaching. A large number serve without pay and give little actual time to students. The clinical members of the staff have been assigned a separate column in this table because they represent a peculiar status which it is well to differentiate.

TABLE VII. THE MEMBERS OF THE TEACHING STAFF CLASSIFIED ACCORDING TO RANK, FULL TIME, ETC.

RANK	RETIRED	FULL TIME	PART TIME	CLINICAL	TOTAL
Deans and Admin. Officers. . . .	1	16	....	....	17
Professors.	7	67	19	32	125
Associate Professors. . . . .	....	2	6	....	8
Assistant Professors. . . . .	....	63	7	....	70
Instructors. . . . .	....	89	25	33	147
Assistants. . . . .	....	30	4	31	65
Lecturers. . . . .	....	....	18	....	18
Total.	8	267	79	96	450

The Medical Faculty.—The University relations and salaries of clinical men in Medical Departments constitute a problem in all institutions which are conducting medical courses. In many cases city hospital services are so subdivided that a medical school in order to gain access to clinical material is compelled to take upon its staff an excessive number of clinical men. This has been true of the College of Medicine and Surgery in the University of Minnesota. The process of gradual unification of medical teaching has also had its influence in creating a large and unwieldy staff. The teaching can not fail to suffer from the fragmentary character of courses in which so many instructors participate. It is to be hoped that as the College is now in control of its own hospital, and with the better organization of the hospital service outside, the Faculty may be reduced to a much smaller number of men.

Ratio of teachers to students.—There is no common standard by which such ratios can be established for purposes of comparison between institutions. A rough method of approximate estimate may, however, be employed. If all assistants and all

part time and administrative officers be counted as one-half, and if all students who attend for less than the regular year be counted as one-half, the Faculty of the University of Minnesota for the year 1910-11 would be reduced to the equivalent of 322, and the students to 5,186, which would yield a ratio of one teacher to every sixteen students. In 1910-11 the ratio in the University of Wisconsin was one to twelve. The report of the Carnegie Foundation for the Advancement of Teaching published in 1908 gives the following ratios for the institutions listed: Columbia University, 1 to 7.3; Harvard University, 1 to 7.0; Yale University, 1 to 9.0; Pennsylvania, 1 to 9.8; Stanford University, 1 to 8.5; Michigan, 1 to 15.0; Illinois, 1 to 8.7; California, 1 to 8.5.

Although the method employed is far from accurate, the ratio of one to sixteen for Minnesota is probably a close approximation. It should be remembered that this figure for the whole institution, including the Schools of Agriculture, would vary in a marked way in different colleges of the University. The figures point clearly, however, to the conclusion that the University of Minnesota is undermanned. The further question as to the amount of work exacted of each instructor has an important bearing on this question of ratio. If teachers are expected to do more work than they can efficiently accomplish, the ratio fails to disclose what is really in teaching efficiency a much more serious situation.

Percentage of Minnesota-trained men.—Table VIII shows the numbers and percentages of the teaching staff of the University of Minnesota who have received their academic training in this University. This table is based upon the Faculty as constituted on August 1, 1912. Clinical instructors have been omitted from the calculation. The table shows that approximately 30 per cent of the Faculty have received all their degrees from the University of Minnesota. This takes no account of a considerable number who without being candidates for degrees have studied in American and European universities. The high percentage of instructors (39 per cent) points to the probability that the small salaries available have led to the appointment of assistants at low stipends immediately after graduation, and that these assistants have been advanced to instructorships without having an opportunity for graduate study in some other univer-

sity. While there are exceptional cases that defy all rules, it is a sound principle that men should rarely receive all their formal training in one institution. When Minnesota chooses its own graduates, it should make selection almost wholly from men and women who have been tested and approved by graduate work in other universities.

TABLE VIII. SHOWING THE NUMBERS OF THE TEACHING STAFF WHO HAVE TAKEN A FIRST DEGREE OR AN ADVANCED DEGREE OR ALL THEIR DEGREES AT THE UNIVERSITY OF MINNESOTA

ACADEMIC RANK	TOTAL NUMBER	BACHELOR'S DEGREE	ADVANCED		PROFES- SIONAL DEGREE	ALL THEIR DEGREES	PER CENT WITH ALL DEGREES
			Master	Ph.D.			
Professors.....	139	6	5	...	7	31	22.3
Associate Professors.....	11	....	...	...	....	6	54.5
Assistant Professors.....	66	9	6	...	1	18	27.3
Instructors*.....	138	1	4	...	2	54	39.1
Totals.....	354	16	15	...	10	109	30.7

*Clinical instructors are omitted from this group.

The full time of a college teacher.—To judge a man's service by the actual number of hours per week which he spends in classroom or laboratory is seriously to misinterpret college and university work. This test takes no account of the hours devoted to administrative duties, to service on committees and boards. It makes no reckoning of the reading of papers and examination books, or, where this is done by assistants, of the careful supervision of their work. It ignores the time devoted to personal conferences with students and, in advanced work, to direction of their special studies and independent investigations. It fails to include the many hours which must be devoted to study and to the preparation by means of which a man continues to grow and to keep abreast of the advances in his special field. The classroom laboratory test overlooks the time which should be given to the investigation and the publication which are expected of a university man. Judged by the standards of the leading institutions, the staff of the University of Minnesota are as a whole doing more than they should be expected to do if they are to escape from the deadening effect of too much mechanical work. There is in one department, for example, a group of instructors who are required to devote forty-two hours a week each to class-room teaching and the theme reading involved in

their instruction. In another department individual schedules run in some cases to forty-eight hours per week. The situation points to several conclusions. In many cases the amount of teaching done and its accompanying obligations should be reduced. A number of men should be freed from purely routine duties and given opportunities for the research of which they are capable. The only way in which the relief can be afforded is obviously by the increase of the numbers of the teaching staff.

Outside service.—But even when a university man is doing all that can be reasonably expected in return for his salary, there remains a margin of time and energy which ought to be at his disposal. There are many forms of remunerative activity in which he may legitimately engage. He may give lectures of an educational character, he may write books the royalties of which give him an income, he may, especially if he be a member of one of the professional schools or colleges, render expert service. The tests as to whether these activities are legitimate or not are: 1st, do they interfere with the proper discharge of the primary obligation to the University? 2d, are the activities of a nature to increase the efficiency of the man himself, as a teacher, as a director of research, as an administrator? When these two questions can be answered in the affirmative, men should be encouraged to engage in so-called “outside” service. To limit the staff of a university to men whom no one else values or desires to consult, would be to condemn our institutions of higher education to the isolation of plodding mediocrity.

Salaries and a salary scale.—In spite of marked increases in salaries during the last five years, the salary scale at the University of Minnesota is distinctly below the point where many strong men and women from without can be successfully called to the institution, and able men within given adequate support and encouragement. The strength of the University lies in the personnel of its teaching staff. The buildings and equipment are of secondary importance. Increases in salary, however, must be adjusted as wisely and fairly as possible to individual capacity and achievement. A uniform salary scale with automatic promotions on the basis of term of service has a deadening effect upon the life of an institution. To grant promotion in rank in lieu of salary tends to fill the upper levels with men who do not belong there. A scale which recognizes for each rank a

minimum and maximum is desirable, but within these limits salaries should be adapted to individual cases. It is the business of the University in fixing salaries to make wise and just discriminations. Seniority should not be allowed to stand in the way of the advance of young, vigorous, and growing men. It is the painful but unavoidable duty of the administration to make it clear to certain of the staff that they have already reached the limits of rank and salary which they may expect from the University.



NEW HORSE BARN

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Publications by members of the Faculty.—The list of publications for the second year of the biennium, by members of the Faculty is not so long or so impressive as could be desired. The relative meagerness of the showing affords further proof of the fact that too many men are overburdened with teaching and administrative duties. The spirit of investigation and production can not be fostered in an atmosphere of overwork and of deadening routine. The University must find relief from such burdens for the men who are capable of productive scholarship.

It should be remembered, however, that research and publication are not the only tests of efficient service. The University owes much to scores of men and women who are devoting their time and energies to faithful and inspiring instruction. It would be unfortunate to set up any one standard, least of all the standard of publication, as the criterion of value to the University. The evidences of successful teaching are recorded in the lives of students who are stirred to intellectual effort, and who go into life with higher intelligence and loftier purpose. These records can not be translated into statistical tables nor turned into printed pages.

The Campus Club.—The opening of the Campus Club on the University grounds has provided a center for social intercourse. A half dozen men live in the House. Scores frequent the house for luncheon. Faculty committees find the Club a convenient meeting point. The institution will contribute steadily to a growing feeling of unity and common interest on the part of the teaching staff of the University. The Club pays rent to the University for the Club House, and by fees and service charges meets all expense of maintenance.

THE STUDENTS

Health conditions among students.—The University has a duty with reference to the personal health of its students and the public health of the community. The present situation is unsatisfactory. The question of health jurisdiction is not clearly defined. The officers who deal with the physical condition of the students are not related in any organized way. Physical examinations can not be made so promptly as they should be. The gymnasium facilities for women are utterly inadequate and unsatisfactory. The quarters for men are far from meeting the standard of the best institutions. There have been no serious outbreaks of contagious or infectious diseases during the year. Many of the boarding houses of the southeast district have been given a sanitary inspection and in many cases conditions have been improved. The fact that many students are living at home makes the situation less serious than it would be if almost the whole student community were non-residents.

As soon as funds are available the University should be organized into a model sanitary district and an officer should be put in charge.

Housing of students.—A reference to the map, page 20, shows that 1,684 students were living in November, 1911, in the vicinity of the University. For these the University provides in Sanford Hall resident accommodations for 90 women. The restaurant in Alice Shevlin Hall serves luncheon daily for about 400 women. Fraternity and sorority houses provide quarters for approximately 400 students. The remainder must find rooms and board in about 50 boarding-houses and in large numbers of private families. The reports of the inspectors make it clear that too many students are living in crowded, ill-ventilated, inadequately heated rooms. There is a real need for better quarters for this group of students. It is to be hoped that in the near future the University will be able to provide sufficient dormitory accommodations for all women who are not living at home. A dormitory system for men should be established as soon as the resources of the University permit.

Loan funds and scholarships.—For the year 1911-12 loans were made as follows: Gilfillan Trust, \$5,052; Ludden Trust, \$300; Elliot Trust, \$400. There is no way in which citizens of the State who desire to assist ambitious and deserving students to take advantage of the education which the State provides can do more to co-operate with the University than in providing loan funds of this sort.

A University employment bureau.—A vocational census made last spring showed among others the following interesting results: Four hundred and ninety-four men and eight hundred and forty-one women filled out question papers which made a list of inquiries about plans for the future and about personal expenses and individual earnings. Of the 1,335 students who reported, 96 per cent gave facts about their incomes. Sixty-four per cent of the men reported that they were earning a part or the whole of their way through college. Among the students who come from farms, 78 per cent were meeting wholly or in part their college expenses. Of the women 15 per cent said that they were earning something at least toward their own maintenance. The aggregate earnings reported by these students were \$94,000, an average equivalent for the men of \$306 each and for the

women of \$191. The University should do all in its power to find for its students who desire work the best opportunities. At present the College of Education conducts a bureau for the placing of University graduates in teaching positions. The Y. M. C. A. serves as a clearing-house for the employment of men students. The Dean of Women acts in a similar capacity for University women. The question arises, however, as to whether the time has not come for the establishment of a regular employment bureau under the charge of an officer who gives his whole time to the work of finding fairly paid and safe employment for students and graduates of the University.

Scholarship of students.—During the year 1911-12, 176 students were dismissed for delinquencies in scholarship. (See Table IX.)

TABLE IX. STUDENTS DISMISSED FOR POOR SCHOLARSHIP, 1911-12

COLLEGE	MEN		WOMEN		TOTALS	
	Registered	Dropped	Registered	Dropped	Registered	Dropped
Science, Literature, and the Arts.....	690	73	1008	29	1698	102
Engineering.....	356	21	....	..	356	21
Agriculture.....	184	7	200	3	384	10
Law.....	203	24	6	1	209	25
Medicine.....	177	3	29	..	206	3
Dentistry.....	244	..	3	..	247	..
Pharmacy.....	74	2	1	..	75	2
Mines.....	98	3	....	..	98	3
Chemistry.....	78	10	3	..	81	10
Education.....	6	..	84	..	90	..
Graduate.....	14	..	89	..	103	..
Total.....	2124	143	1423	33	3547	176

The rules have been enforced with efficiency and without any yielding to pressure. The regulations undoubtedly result in the elimination of weak students. There is always the danger, however, that a few promising students will be included in these more or less automatic dismissals. When large numbers must be dealt with by an inadequate staff an educational machine is the result. It is to be hoped that in the early future there may be added to the staff preceptors who can give personal attention to students who are failing in their work. This increased service is needed not only for students who are failing in their work, but perhaps even more for the encouragement of those who with friendly guidance and stimulation might achieve much more in their college course. The student of unusual ability

who rests content with mediocrity of work is quite as unfortunate as one of limited ability and defective training who is merely struggling to remain in college.

The Students' Council.—During the year 1911-12, a Council of Students representing all the colleges of the University has been organized. This Council is designed to lead and represent student opinion. In all the large universities, the old days of faculty coercion have passed. Community control must depend upon mutual respect, upon frank conference, and upon friendly co-operation between students and faculty. The organization of the Students' Council is an auspicious and welcome movement in the direction of organized student participation in the life of the institution.

The Minnesota Union.—The women of the University find in Alice Shevlin Hall a social center, a place for study, for refreshment, and for comradeship. The men of the institution have no corresponding headquarters. The fraternity houses can serve only their own members. The only centers for men are cigar stores, newsrooms, restaurants under private auspices, run by proprietors whose primary interest is commercial. The Minnesota Men's Union is preserving its organization with the hope that a building for men can be secured. Such a building is to be found in most of the leading universities of the country. These houses are not places for mere idling. They are centers which afford organization rooms, study rooms, toilet facilities, space for games, and conditions for comradeship.

Fraternities and sororities.—These organizations under existing conditions render unquestioned service in student life. They provide rooms and board for a considerable number of students (about 400). They afford opportunity for comradeship. They exercise a control over their members. They cultivate loyalty and are centers for the development of the University spirit. On the other hand, they involve certain dangers. They tend to waste the time of their members. They fall easily into a kind of snobbery. They often lower rather than maintain the moral standard of the community. They may divide the student body and foster ill-feeling. In short, fraternities and sororities are like all human institutions,—under the right sort of leadership and guidance they may be a source of strength; under other conditions they may be a menace. The biennium

has been marked by increased interest in the fraternity situation. The alumni and heads of the departments are showing an attitude of concern for them and their members. Fraternity finances are being put on a more business-like basis. The comparative scholarship reports with which the fraternities have been supplied have stimulated a desire to make a better showing. The Interfraternity Council has shown an increased sense of responsibility.

The sororities have adopted a rule which ought to minimize some of the evils that have heretofore been encountered. Hereafter new members will not be pledged until the end of the freshman year. This ought to raise the level of seriousness and scholarship in sororities and discourage the entrance into the University of the type of young woman who attempts a year of college work purely with the idea of gaining coveted membership in a sorority. The University must assume toward these organizations an attitude of co-operation. It must regard them not as evils to be endured but as possible agencies of good to be encouraged. Constant vigilance, however, on the part of graduate leaders, undergraduates, and University committees is necessary if the advantages of these groups are to be secured and the dangers to be minimized.

Student activities.—The students of the University maintain eleven literary societies; thirteen associations for various purposes of self-government, racial loyalty, and self-improvement; four religious associations; twenty-one clubs organized about interests and activities. The student community supports five regular publications; there are in active existence forty fraternities (including the professional fraternities and three honor societies) and ten sororities. The appeal of all these interests and organizations may well be distracting. The Dean of Women reports a wise attempt on the part of the self-government association to limit the number of activities in which any one woman may engage. A similar restriction upon the social and other enterprises of men has been at least discussed by the Interfraternity Council. The scholarship reports unquestionably reflect the influence of these many appeals which are made to students. On the other hand many of these clubs and the activities which they foster undoubtedly afford under reasonable

conditions valuable training, widen sympathy, discover latent abilities, and provide an important discipline.

Ethical standards among the students.—The University fails signally if it neglects to develop in its students a discriminating intelligence and a sound feeling with regard to moral questions. A morality which satisfies itself with fine phrases and formal praise of lofty ideals, and evades the concrete moral questions that arise in daily life is no better than hypocrisy. College life offers many problems, problems of honesty in student work,



MECHANIC ARTS BUILDING AND SHOPS

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of strict integrity in handling student finances, of sensitive honor concerning athletic contests, of individual responsibility for the reputé and welfare of the institution, problems of personal morality, self-discipline, of consideration for one's fellows, and the growth of loyalty from that of the gang into the wider reaches of public spirit and the obligations of service. Student feeling concerning moral questions is essentially sound and trustworthy when judgment is not swept away by temporary feeling or con-

fused by a clouding of issues. It is the duty of a University administration to see to it that moral questions are clearly analyzed, that confused thought is clarified, and that vital moral issues are pressed home and a decision insisted upon. In this work of making clear-cut discriminations and of influencing moral judgments the co-operation of the students through their councils and their leaders is essential. More and more the University authorities must rely upon the aid of the students in the work of defining moral issues and rallying student opinion to the support of what is clean, honest, fair, just, considerate, and disinterested.

THE ALUMNI

The report of the Secretary of the General Alumni Association deals with the organization of the alumni, with the management of the *Alumni Weekly* which has a subscription list of 3,000, and with the statistics of graduation. From the founding of the University to August 31, 1912, the University has conferred degrees upon 9,654 graduates. It is estimated that of these 8,930 (6,700 men and 2,230 women) are now living. A little more than two-thirds (5,680) of the alumni are residents of the State of Minnesota. The remaining 3,250 are widely scattered, chiefly throughout the northwestern states. The interest of the alumni is attested in many ways. Alumni dinners and meetings of graduates have been held in many towns of the State to welcome the president and other members of the University staff. In connection with the University "Weeks" held in June the alumni of each community worked enthusiastically to make the experiment a success. The influence of the graduates of the University is an important asset of the institution. The co-operation of these men and women must be relied upon by those who are responsible for guiding the growth of the University. This co-operation to be permanently successful must take the form of diffusing widely through the State accurate facts and convincing arguments concerning the needs of the University and its value to the State. Any concerted movement at all resembling an organized lobby to exert pressure upon the Legislature would be rightly resented and would react seriously upon the institution. The alumni have shown their

appreciation of this danger and may be counted upon to act with consideration for the larger welfare of the State and of the University as a servant of the commonwealth.

UNIVERSITY FUNCTIONS, CONVOCATIONS, PUBLIC LECTURES, ETC.

The inauguration exercises.—The ceremonies connected with the inauguration of the third President, took place in October, 1911. The alumni procession and pageant on the evening of October 17th were notably successful and impressive. The exercises of inauguration day were simple, appropriate, and brief. The dinner at the University Farm in the evening was informal and spirited.

Commencement exercises.—In June, 1911, the Baccalaureate address was delivered by Dr. J. E. Freeman, of St. Mark's Church, Minneapolis, and the Commencement address by the President of the University. In 1912, the speakers were Professor Theodore G. Soares, of the University of Chicago, and Dr. Albert Shaw, editor of the *American Review of Reviews*.

Opening convocation.—The first day of the autumn semester, 1911, there was a general assembly of Faculty and students in the University Armory. The brief exercises succeeded admirably in emphasizing the unity of the institution as a whole, in recognizing the individuality of its various divisions (the students and teachers of each college were asked to rise as the roll of the colleges was called), and in deepening in all at the outset of a new year the sense of obligation to the State which makes the university opportunities possible. The opening convocation will be a permanent institution. At another convocation held in October, an address was delivered by the President of the United States.

Chapel assemblies.—The re-arranged schedule of classes provided for University chapel assemblies on Mondays, Wednesdays, and Fridays. These gatherings were addressed by distinguished speakers from Minneapolis and St. Paul and from abroad. A number of musical programs were provided under the charge of the Director of Music.

Courses of public lectures.—In furtherance of the policy of fostering the intellectual life of the University, public lecture

courses and single lectures were arranged during the second year of the biennium. A valuable course in Comparative Literature was given by a group of professors of the University. Professor Otto Heller, of Washington University, delivered a course of five lectures on Ibsen; Professor E. A. Moore, of Harvard University, three lectures on Modern Thought and Religious Belief. Dr. Inazo Nitobe, of the First Higher College, Tokyo, Japan, Exchange Professor, gave a course of eight lectures on the History and Institutions of Japan. A series of vocational addresses on the chief careers open to college men and women was delivered by leading business men and social workers of Minneapolis and St. Paul.

Meetings of societies.—The University offers its hospitality to educational groups of many kinds. During the year 1911-12 the Superintendents of Schools of Minnesota held their annual meeting at the University.

Representation at other institutions.—A large university is called upon constantly to send representatives to the meetings of scientific societies and to public ceremonies of other universities and colleges. It has been the policy of the University to limit representation at these gatherings as strictly as possible by applying the test of increased efficiency for those who attend the meetings, and the possibility of contributing to the interests which are represented. In case of ceremonies which are largely formal, such as the inaugurations of new presidents, the University has asked alumni in the vicinity of the institutions concerned to represent Minnesota at these gatherings.

A SURVEY OF THE COLLEGES

The extended reports of the Deans of the various divisions of the University appear in the Report of the President for the year ending July 31, 1912. Copies of this volume will be sent to all members of the Legislature. In the following paragraphs are summarized the salient ideas which are presented in these different reports.

College of Science, Literature, and the Arts.—The Dean reports the re-organization of combined courses in Law, Medicine, and Education by means of which the curricula of these colleges are brought into close relation with the curriculum of the College

of Science, Literature, and the Arts. Stress is laid upon the need of additions to the teaching force and upon the importance of larger salaries for men of unquestioned ability or of distinct promise. There is an enumeration also of the buildings which are desirable for the immediate use of the College or which should be included in a building program for the future.

College of Engineering and the Mechanic Arts.—The Dean reports the resumption of courses in Architecture and the inauguration of a five-year course in Engineering. The value of an urban location for engineering schools is demonstrated. A plea for the removal of the extra tuition fee for non-resident students is based upon the belief that the College of Engineering has a duty to the whole Northwest. Plans for an Engineering Reference Bureau for the State, a center for technical societies, a library, and for the co-operation of practicing engineers, are outlined. An academic year of eight months secured by the curtailing of vacation periods is recommended. A building for Electrical Engineering is urged as a pressing need of the College.

The Department of Agriculture.—This Department reports the organization of a Bureau of Research in Agricultural Economics for the study of marketing problems, credit for farmers, land titles, etc. This Bureau has recently made a social survey of a rural township in southern Minnesota. The extension activities of the Department are enumerated. These include industrial contests, farmers' clubs, demonstration farms, special educational trains, providing judges for County Fairs, thirty-five short courses in High Schools, supplying of lecturers for farmers' meetings, etc. The Department, through press sheets, plate service, and extension bulletins, distributes information throughout the State. The report includes also a plan for the organization of the Department and enumerates additions to the teaching staff. Curriculum changes, the raising of entrance requirements, the discontinuance of the two-year course in Home Economics, specialization in Junior and Senior years are set forth in detail.

The Dean calls attention to the establishment of a Department of Agricultural Education, a plan for segregating the staffs of the College, School, and Station, a proposed five-year course in the Schools of Agriculture, the success of the new Junior

Short Course, and the establishment of a system of correspondence instruction for School students during the summer vacation. The report deals also with the development of Graduate Work in the College of Agriculture.

The work of the Experiment Station is described, and a list of special investigations under way is given. Plans for the new stations at Duluth and Waseca are outlined. Statistics of registration, special needs of the various departments, salary increases, increases in the staff, and the building requirements of the several divisions of the Department are set forth in detail. The report of the Dean includes statistical and other information concerning the stations and schools under the control of the Department in different parts of the State.

The Law School.—The Dean describes the changes in the entrance requirements, in methods of instruction, gives facts with regard to registration and geographical distribution, outlines the policy with reference to the teaching of Law at night and indicates the general plans for future development.

College of Medicine and Surgery.—This report includes that of the Superintendent of Hospitals. Special attention is called to the clinical needs of the College and a plea is made for increased hospital facilities. The concentration of all the work of the College, including the out-patient service, is urged. The claims of preventive medicine and of public health are urged, and the establishment of courses for the training of health officers is recommended. The Hospital report gives in detail the facts about patients, operations, per capita costs, etc.

College of Dentistry.—The Dean describes the re-organization of the work of the College, the raising of standards, makes a plea for research work, maintains that preventive dentistry offers a most important field of development, presents arguments for the maintenance of a dental clinic through the summer, and shows the need of scholarships for promising students.

College of Pharmacy.—The Dean reports co-operation with the University Dispensary, and the success of the medicinal plant garden. He makes a plea for an increase in the teaching staff of the College, for raising the standard of admission, and the development of a four-year course. He describes also the new quarters which are being prepared for the College.

School of Mines.—The Dean reports changes in the curricula,

the adding of a course in Mine Plant Designing and points out a demand for experts in metallography. The work of the Experiment Station is described and statistical reports as to specimens assayed, etc., are included. The needs of the School are declared to be increases in staff, improved equipment, and, in the near future, more adequate buildings.

School of Chemistry.—The Dean reports statistics of registration, scholarship, etc., describes the various curricula of the School, indicates the special investigations which are being



THE JAMES J. HILL HALL

THE SCIENCE BUILDING AT THE NORTHWEST SCHOOL OF AGRICULTURE, CROOKSTON

carried on, and appends a list of theses upon which students have been engaged.

College of Education.—The Dean makes a plea for better training for High School teachers, and for the technical preparation of principals, superintendents, and special teachers of vocational subjects. The needs of the College with respect to staff, co-operation with the other divisions of the University, equipment and buildings, are clearly set forth.

Graduate School.—In addition to important statistics, the Dean reports in general upon the status and policy of the graduate work in the University. He asserts that the University in many departments is not equipped for genuine graduate work. He emphasizes the need of more men for research, more leisure, and more adequate compensation. He reports the raising of the standard of graduate work by abolishing work *in absentia*, and discusses the character and purpose of the course leading to the Master's degree. The influence of the Graduate School on the University as a whole is insisted upon.

Report of the Dean of Women.—This report deals with the supervision of lodging-houses, with employment for women, with scholarships for women, with the Student Government Association and Shevlin Hall, with the sororities, the Pan-Hellenic Association, and other student activities. The Dean recommends that the Dean of Women be made a member of the student work committees in all Colleges which enroll women. She advises the continuance of lectures in personal hygiene and reports a plan for the re-organization of health supervision and physical education for women. The report includes the recommendation of more dormitory room and makes a plea for co-operation in raising standards of taste and conduct.

Report of the Librarian.—This report outlines the library policy, proposes a plan for determining relations between the general library and the departmental libraries, describes the cataloguing work in progress, proposes the establishment of a loan department, warns against the danger from fire, offers a program of library development, and recommends increases in the staff and the early beginning of a new Library Building.

UNIVERSITY EXTENSION

The following statements have been prepared from data supplied by the Directors of University Extension Work and cover the second year of the biennial period only.

University Weeks.—During the first three weeks of June, 1912, the University organized in eighteen towns of Minnesota one-week programs of lectures, conferences, and entertainments. The following organizations and institutions co-operated with the University in this enterprise: The Federated Women's

Clubs, the State Art Society, the Department of Public Instruction, the State Library Commission, the State Board of Health, the State Department of Labor, the Normal Schools at Duluth, Mankato, and Winona, Unity House of Minneapolis, the University Glee Club, the University Dramatic Club, and the Minneapolis School of Music. Seventy persons participated in the public exercises and in the administration of them. Of these persons fourteen contributed their services without any compensation, forty-six served for their expenses only, while ten received expenses and small fees. The distance covered in the three circuits was seventeen hundred and twenty-four miles. Seventeen counties were reached. It is estimated that twelve thousand six hundred people attended the sessions. Nine farm-boys' camps were organized with a total enrollment of two hundred and seventy boys. The program for the week was arranged in such a way as to give each day a special character. The six days were: "Farmers' Day," "Business Men's Day," "Art and Literature Day," "Town and Country Day," "Public Health Day," "Home Welfare Day." A trained nurse spent an entire week in each town, giving two talks daily on Home Nursing, Dietetics, Care of Children, Sex Hygiene, and other important topics. The experiment was an unquestioned success. The total cost was \$7,878.75, the total receipts \$5,476.18, leaving an expense of \$2,402.57 to be met out of University funds. The amount paid for railway mileage was approximately \$1,600. All the eighteen towns have applied for a continuation of the plan next June. Experience has shown that the number of daily exercises should be reduced, with a consequent reduction in the size of the staff. The Boys' Camps should be put on a self-supporting basis. This can be done with a small expenditure for each boy. Arrangements should be made earlier so that there will be a longer period for a publicity campaign. The northern circuits must be organized so that the distance between towns will not be so great and involve so serious an expense.

Agricultural Short Courses, Demonstration Farms, etc.—In 1911-12 twenty short courses in Agriculture, eleven short courses in Home Economics, and fifteen short courses combining these two subjects were conducted under the auspices of the University. These courses were one week in length. The total attendance

at all sessions was twenty-five thousand eight hundred. Twenty demonstration farms have been operated under the direction of three men who have devoted practically their entire time to this work. Each farm is visited at least twice each month. Public demonstrations of stock judging and the spraying of mustard were given at Pipestone and Osakis.

Industrial Contests, Rural School Work.—Two men have given the greater part of their time to the organization of industrial contests in the rural schools. These have been conducted in about forty counties. Approximately fifteen thousand boys and girls have taken part. The contests include sewing, baking, manual training, and the growing of grain, corn, and vegetables. An acre-yield contest with about thirteen hundred competitors was also organized. In co-operation with the *St. Paul Dispatch*, an acre-yield potato contest was conducted in ten counties with the participation of about one thousand boys and girls. With the aid of the *Minneapolis Tribune* a similar contest in tomato growing and canning was carried through in eleven communities. This enlisted the interest of over a thousand girls. An important feature of the industrial contest has been the introduction of prizes for booklets prepared in the rural schools on selected agricultural topics. The Extension Work is to be credited with the inauguration of a plan for providing warm lunches for those who attend the rural schools. This plan has been adopted by several country schools, which have been fitted with gas plates and other equipment. The preparing of the luncheon affords an opportunity for elementary instruction in Domestic Science. Out of more than twenty teachers who have tried the plan in Douglas County all report satisfactory results. The County Fairs offer an opportunity for extension work. In the autumn of 1911 demonstration tents were sent to fifteen county fairs. These fairs are more and more becoming educational influences in the State. The judging of exhibits is another form of service which the Extension Department is increasingly called upon to provide.

Press Service and Bulletins.—In 1911-12 twenty-four numbers of the *Farm Press News* were published and distributed to the newspapers in Minnesota and adjoining states. The following bulletins were issued: No. 19, Domestic Science in Rural Schools, Mary L. Bull; No. 20, Soil Tillage, O. M. Olson;

No. 21, The Care and Management of Poultry, C. E. Brown; No. 22, Establishing an Orchard, K. A. Kirkpatrick; No. 23, Some Common Insects and Their Control, F. L. Washburn; No. 24, Seed Testing, W. L. Oswald; No. 25, Annual Pasture, Soiling, and Hay Crops, Andrew Boss; No. 26, Seed Grain, Andrew Boss and C. P. Bull; No. 27, Flax Growing, C. P. Bull; No. 28, Tuberculosis, C. Easton and C. R. Barnes; No. 29, The Keeping of Dairy Cow Records, A. J. McGuire; No. 30, Marketing Eggs from the Farm, N. E. Chapman. The mailing list for extension bulletins now numbers about forty-two thousand names. For each of nine months four-page leaflets have been mailed to all the rural school teachers of the State. These leaflets are designed to arouse an interest in the study of Agriculture. Ten thousand copies were printed for each issue.

Farmers' Institutes and Clubs.—The Extension Division co-operated with the Farmers' Institutes. Two hundred and twenty-six of these were held during 1911-12 with an aggregate of six hundred and sixty-five sessions and a total attendance at all sessions of one hundred and nineteen thousand one hundred and eighty-two. Fifty thousand copies of *Farmers' Institutes Annual* were published. This annual contained three hundred and twenty pages of practical farming articles fully illustrated. The annuals were distributed to all who attended the Farmers' Institutes. The division continued its co-operation with Farmers' Clubs and encouraged the organization of new clubs wherever possible. The division supplied these clubs with lists of timely topics for discussion. It also supplied speakers for the club meetings. The experience with the Clubs has been most encouraging and there is reason to believe that this movement has in it large possibilities.

Extension in Economics and Political Science.—During the first semester 1911-12 evening courses were conducted in Elementary Economics, Business Law (three courses), Accounting Systems (three courses), Banking Practice, Money and Credit. There was a total registration of 274 students. In the second semester, in addition to the continuation of six courses given in the first semester the following courses were conducted: Advertising and Salesmanship, Practical Economic Problems, Funding Institutions, and Investments. The registration for the second semester was 192, making a total for the year of 466.

This University work in St. Paul and Minneapolis represents a duty which the University has in these larger urban centers. It is to be hoped that the number of University courses can be rapidly increased and that similar instruction may be offered in Duluth and other cities of the State, if a demand for work of this kind either now exists or can be created. The work in Minneapolis has been aided by the co-operation of the American Institute of Bank Clerks and other organizations. It has had the friendly support of business men and commercial firms.

College of Education Extension.—The \$5,000 appropriated for this purpose has been expended to maintain: (a) a teachers' agency for the benefit of Minnesota schools and for the advantage of University graduates (about one hundred were assisted to positions at an aggregate saving to them of a large sum in agency fees); (b) to follow up the work of University graduates now teaching by personal visits where possible, with the result both of increasing the efficiency of these teachers and of strengthening the teaching of the College through the inspection of the work of former students; (c) to continue on a moderate scale the principle of correspondence study, by which for several years about forty students have been brought annually into relation with the University; (d) to send representatives to meetings of teachers and school officers throughout the State (representatives of the Department have given eighty-two addresses to an aggregate of eight thousand five hundred people and have also participated in the programs of the University Weeks); (e) to assist schools with suggestions, loan of libraries and lantern slides. Something in this direction has been done although too little money has been available for this purpose.

THE UNIVERSITY AND THE STATE

If the University is to realize the ideal of "a campus as wide as the Commonwealth," it must know the natural resources, the people, the institutions, the needs of the whole State. Much of this knowledge can be acquired only as men from the University mingle with their fellow citizens in the cities, towns, and country-sides. With a view to understanding more intelligently the life of Minnesota, the President of the University has, since assuming office in the spring of 1911, visited more

than sixty counties of the State. The traveling representatives of the Department of Agriculture have reached every part of the Commonwealth. Individual members of the University teaching staff have addressed audiences throughout Minnesota. Experts of the Geological Survey have been at work in the field examining certain economic resources. The staff of the Botanical Survey have been making their investigations. A special social and economic survey of a Minnesota township was carried on during July and August. Representatives of the School of



GIRLS' DORMITORY

WEST CENTRAL SCHOOL OF AGRICULTURE, MORRIS

Mines have estimated ore deposits for the State Tax Commission. An economic specialist of the University has conducted special investigations for this same body. The appended reports of the University Extension Division, the Geological Survey, the Botanical Survey, give the details of the work which is being done by the University "on the larger Campus."

It may be well to summarize briefly the different types of service which the University is rendering to the State of Minnesota.

General education.—Hundreds of young men and young women are receiving every year a general higher education which aims to foster intelligence, efficiency, and loyalty to the common life. These students ought not to be regarded as merely fitting themselves for personal success. They are by virtue of their education an asset to the State. It is the business of the University to impress upon them this social obligation.

Professional training.—In its technical schools the University maintains a high standard of preparation for lawyers, physicians, engineers (civil, mechanical, electrical, and mining), expert farmers, teachers, pharmacists, dentists, and chemists. Again it must be said that this professional training affords more than an equivalent to the State through dissemination of specialized skill which is put at the service of the community.

Farm schools.—At St. Anthony Park, Crookston, and Morris, hundreds of boys and girls are, under University auspices, given a thorough course in preparation for farm life. Evidences of the influence of these schools are to be found in every part of the State in improved methods of farming, in a co-operative spirit, in ambition to make country life interesting and rewarding.

Research.—The specialists of the University in library, laboratory, and the field are constantly engaged in seeking new facts which shall be either of immediate practical value or shall increase man's intelligent understanding of the world in which he lives. Modern Germany has demonstrated convincingly the value of research in application to every phase of the national life.

Botanical and Natural History Survey.—The University for years has made a study of the plant and animal life of Minnesota with important practical and scientific results.

Geological Survey.—The institution's experts study the natural resources of the State, the deposits of ores, peat, stone, clay, and other minerals. The results are published in official bulletins.

Publishing new knowledge.—By means of publications, articles, and bulletins the University is steadily communicating to the public the results of its search for new ways of dealing with the problems of men's daily lives.

Sending out graduates.—The University has conferred degrees during the last forty years upon nearly nine thousand men and women, two-thirds of whom are living in the State of Minnesota and contributing their knowledge and training to hundreds of communities in the Commonwealth.

Distributing farm facts.—Through the publication of extension bulletins on a great variety of farm problems well-tested information is being distributed to thousands of farmers throughout the State. One has only to send name and address to the University Farm, St. Paul, to receive these bulletins regularly.

Short courses.—Through the Extension Division short courses on the problems of farming and country life are carried on in towns and villages throughout the State, while at the University Farm hundreds

of students are enrolled each year in brief courses in dairying, animal husbandry, traction engineering, etc.

Demonstration farms.—Twenty privately owned farms are operated under the direction of the College of Agriculture with a view to demonstrating in as many communities that better systems of farm management are applicable to farm conditions, and that, when practiced, greater profits are secured.

County agents.—In several counties the University, co-operating with the U. S. Department of Agriculture and the citizens of the counties, maintains agents who are at the service of farmers. These agents give advice on crops, stock, drainage, and numerous other farm topics.

Demonstration trains.—From time to time, in co-operation with the railway companies of the State, the University sends out especially equipped trains with exhibits, live stock, etc. Such trains make stops in scores of communities where the lecturers give lectures and demonstrations and distribute literature.

Industrial contests.—An interest in farm life is aroused in the rural schools by prize competitions. At present 1,300 boys are interested in the corn acre-yield contest, and 15,000 boys and girls are working for prizes in sewing, baking, grain, fruit, and vegetable raising.

County Fair judging.—The University provides judges for determining the prizes awarded at a score of County Fairs.

Night classes.—Regular courses for credit are offered in St. Paul and Minneapolis in English, Foreign Languages, Mathematics, Law, History, Mechanical Drawing, and other subjects.

Lecture courses.—The University is prepared to provide lecture courses in all parts of the State at a minimum price for lectures and expenses. In some subjects lectures may be secured without charge.

Correspondence teaching.—Courses in Education, Economics and Political Science are now provided by correspondence. It is hoped in the early future to add important vocational and other courses to this list.

University Weeks.—Last June the University conducted courses of lectures and entertainments in eighteen towns of Minnesota and reached directly twenty thousand people with suggestions on various community and personal interests, farming, business, public health, art, literature, education, child welfare, and other vital topics.

Free hospitals and clinics.—The University maintains a hospital with 120 beds, and a dispensary or out-patient department. Only patients who are unable to meet the usual expenses of sickness are admitted to the Hospital or treated at the Dispensary. In admitting to the Hospital, preference is given to citizens from outside of St. Paul and Minneapolis.

Expert service.—The specialists of the University staff are constantly serving the State in many ways. Thus the mining experts report to the State Tax Commission the value of ore deposits on the northern ranges. Another professor prepares statistics upon which the Commission bases much of its work. There is close co-operation between the University and the State Board of Health.

Rural survey.—With a view to gathering accurate information about

country life, the University has begun to study in detail certain selected townships in the State. The published results ought to be of value.

Rural co-operation.—A bureau of the University is making a specialty of the problem of marketing farm products and the various ways by which farmers may work together for their mutual advantage.

Answering questions by mail.—Thousands of letters which raise a great variety of questions are every year answered by the different departments of the University. Such correspondence is welcomed.

SUMMARY

In conclusion, the essential principles of University growth are briefly summarized.

Men make a University.—This principle needs to be kept steadily in mind. Equipment and housing are important only in relation to the men who use the equipment and occupy the buildings. It is the duty of the University to recognize and encourage its strongest investigators and teachers, and to add to their number. Funds are needed, therefore, for increases of salaries and for enlargement of the staff.

Encouragement of research.—A true University can exist only where a group of investigators in the chief departments of Arts and Sciences are at work on the frontiers of knowledge. The University of Minnesota can not expect suddenly to create a Graduate School. Graduate work, to be sound, must be developed gradually. Men overwhelmed with routine must be freed for investigation. Departments already promising must be strengthened. The graduate work of other neighboring institutions must be taken into account. This University should seek to fit itself into the higher educational situation of the Northwest. Graduate work is so expensive that duplication ought so far as possible to be avoided. A Graduate School is created, not by bribing students to attend, but by offering work of a high character under well-trained men of outstanding ability and inspiring leadership.

The training of teachers.—It is the duty of the University to prepare teachers for the High Schools of the State, to train principals and superintendents and teachers of vocational subjects. It is coming to be more clearly recognized that the mere possession of knowledge, however authoritative and accurate, does not in itself prepare one for teaching. It is

obvious that teaching and supervision have become technical professions which require special training. Through its College of Education, in co-operation with all the divisions of the University, the institution aims to provide effective training. A University practice high school is a necessary part of any plan for the thorough professional preparation of high school teachers and principals. The College of Education needs an adequate staff and suitable quarters, both for its own classes and for its practice school.

University Extension.—In fulfillment of its obligations to the State, the University must not only give training to those who resort to its teaching centers, but it must go to the people in their communities and their homes. This service can no longer be regarded as merely incidental, as a kind of by-product of the main activity of the institution. A special staff is needed for the general extension work of the University, just as such a corps is engaged for Agricultural Extension. Among the many forms which this extension movement may profitably take are: evening classes in large urban centers and towns, technical classes for artisans, shop men, and professional workers, courses of popular lectures, single addresses, organized series of exercises such as University Weeks and winter short courses, correspondence instruction supplemented by periodic visits of traveling supervisors, debating societies, so-called lyceum courses of lectures, concerts and entertainments, organized circuits of local dramatic clubs under the direction of traveling professional coaches, similar circuits for choral societies, co-operation with local civic associations in the activities which are commonly identified with the "Social Center" movement, a lantern slide and moving-picture film service for schools and other centers, local campaigns for medical supervision of schools, public health, personal hygiene, and many other plans for disseminating information, suggestions, and ideals. The University should seek the co-operation of all the agencies in the State that are engaged in educational work, and with them develop a plan by which duplication and friction may be wholly eliminated.

The University and the State educational system.—The University does not arrogate to itself the control of the educational system, but must take an intelligent and genuine interest in every division of the system. Through its College of Educa-

tion the institution may render important service in studying the problems of the grade schools, the curriculum, organization, and administration. The University is immediately interested in the efficiency of the High Schools. It would have them not so much preparatory schools for the college as institutions serving the communities in which they are established and the majority of pupils whose formal education is carried no further than high school graduation. The University can not do its duty by the High Schools until plans are perfected by which University teachers can visit these schools regularly, familiarize themselves with the problems of adjustment and instruction and thus become more intelligent and sympathetic with reference to the situation. The present condition of isolation can not be allowed to continue. The University is concerned also with the institutions for special classes of children, youth, and adults. These agencies are of interest from scientific, sociological, and educational points of view. The University should seek to co-operate with all these institutions and to serve them in every possible way.

The University and the State government.—The University is “out of politics” in the narrower, partisan sense, but it has a part to play in the wider meaning of politics, the efficient conduct of public affairs. A line should be drawn between administration, the exercise of police-power, etc. on the one hand and on the other the supplying of the exact information and tested experience upon which good administration must be based. With the first function the University has no direct concern. It would be disastrous for the institution to seek to enter this field. But the various departments of State administration should look to the University for the accurate data and the expert knowledge which they need. This service is already being rendered to two or three departments. This policy is capable of large expansion. The University is ambitious to be the unbiased, non-partisan source of scientific knowledge for the administrative boards and officers of the State.

University individuality.—Every institution should seek not only to conform to the best educational standards which prevail throughout the country, but should also aim at fostering an individuality of its own. The University of Minnesota should seek to stand for something definite and different. For example,

there is every reason why the University should seek to become the chief center of Scandinavian studies in the United States. Here should be collections, museums, libraries, and a staff of investigators and teachers which would give distinction to the University. Exchange professorships with the Universities of Norway, Sweden, and Denmark should be arranged. It should be a conscious purpose of the institution to discover its special aptitudes, sources of strength, opportunities for service, and of these to make the most.

Sense of service to the State.—Back of all the University's activities, giving significance and purpose to them should be a deepening sense of obligation on the part of students and staff conscientiously to utilize the opportunities afforded by the Commonwealth in order to make the largest return of skill, intelligence, and efficiency.

Respectfully submitted,

GEORGE E. VINCENT, *President*

FINANCIAL REPORT
FOR THE
FISCAL YEAR ENDING JULY 31, 1911

FINANCIAL REPORT

To the President of the University:

DEAR SIR: I have the honor to submit herewith a report of the financial operations of the University of Minnesota from August 1, 1910 to July 31, 1911. The same is based upon the books and records as the writer found them upon assuming charge of the Business Office, August 1, 1911.

We should commence with the balances as shown in the Sixteenth Biennial Report for the fiscal years ending July 31, 1909, 1910. We find, however, that in some instances the figures do not agree with the Ledger balances.

See page 75 for reconciliation of the balances as included in the report with the Ledger and also with the books of the State Auditor.

It has been the custom, in the past, to give a distribution of the Current Expense Fund. We omit as it is misleading and does not represent current expenditures. For instance, on page 46 of the Sixteenth Biennial Report, the expenditure for fuel, power, and light is given for 1908-1909 as \$7,440.86 and for 1909-1910 as \$6,397.39; whereas, a separate account of the Fuel Fund appears on page 57, giving the cost of fuel for 1908-1909 as \$38,144.12 and for 1909-1910 as \$30,719.57. There were also fuel expenditures included in the Elliot Hospital, Shevlin Hall, Sanford Hall, and Agricultural Dining Hall expenditures, which would add to the above amounts.

To compile and classify the expenditures properly would entail the classification of all of the vouchers paid during the year.

TABLE I

RECAPITULATION OF ALL FUNDS

Balance August 1, 1910, Maintenance Funds \$	91,724.10	
Credits to Maintenance Funds.....	1,379,864.71	
Balance August 1, 1910, Building and Equipment Funds.....	752,447.74	
Credits to Building Funds.....	1,093,923.35	
		<hr/>
		\$3,317,959.90
Maintenance Expenditures.....	\$1,254,859.83	
Building and Equipment Expenditures....	443,220.61	
Deductions, Transfers, and other Entries, Maintenance Summary.....	107,440.44	
Deductions, Transfers, and other Entries, Building and Equipment Summary.....	216,131.53	
Balance Maintenance Fund.....	109,288.54	
Balance Building and Equipment Fund....	1,187,018.95	
		<hr/>
		\$3,317,959.90

TABLE II

RECONCILING STATE AUDITOR'S BALANCE IN SUPPORT FUND WITH BAL-
ANCE AS GIVEN IN THE BIENNIAL REPORT FOR FISCAL YEARS ENDING
JULY 31, 1910 AND WITH THE UNIVERSITY LEDGER BALANCE

State Auditor's Balance August 1, 1910, Credit.....	\$18,703.45	
University Ledger Balance Overdraft.	42,635.63	
	<hr/>	\$61,339.08
May Pay-Roll charged to University Books in June, paid by State Au- ditor subsequent to August 1, 1910.		61,339.08
University Ledger Balance August 1, 1910, Overdraft.....	\$42,635.63	
Balance as included in Biennial Report August 1, 1910, Overdraft.....	11,708.24	
	<hr/>	\$30,927.39
23-100 Mill Tax considered due, but not available.....	\$54,867.00	
Bills Payable in addition to May Pay- Roll as follows:		
July Pay Roll.....	\$16,529.18	
July Bills.....	9,906.77	
Fuel Bills.....	4,972.70	
	<hr/>	\$31,408.65
	<hr/>	\$23,458.35
Contingent Fund charged by State Auditor to Support Fund but not expended.....	\$2,800.00	
Balance in Fuel Fund July 31, 1910...	4,669.04	
	<hr/>	7,469.04
	<hr/>	\$30,927.39

TABLE III

RECONCILING CROOKSTON INDUSTRIAL BUILDING FUND

University Ledger Credit Balance for Fiscal Years ending July 31, 1910	\$686.90	
Biennial Report Balance for Fiscal Years ending July 31, 1910	170.90	
	<hr/>	\$516.00
Report gives expenditures during year 1909-10..		516.00
These expenditures, however, do not show on the books for 1909-10, but do show for 1910-11.		

TABLE IV

RECONCILING SUPPORT FUND BALANCE JULY 31, 1911 WITH STATE
AUDITOR'S BALANCE

State Auditor's Balance July 31, 1911.	\$83,429.23	
University Ledger Balance July 31, 1911	61,051.18	
	<hr/>	\$22,378.05
Warrants issued by State Auditor July 31, 1911 not charged until August 1, 1911	\$22,616.13	
Charged by State Auditor, account fees for collections of interest, not charged on University books until after August 1, 1911	\$203.24	
Refund Land Interest to M. Shroeder, charged on State Auditor's books, not on University books until after August 1, 1911	34.84	
	<hr/>	238.08
		<hr/>
		\$22,378.05

TABLE V
SUMMARY OF MAINTENANCE FUNDS

	Balance Aug. 1, 1910	Received	Total	Expen- ditures	Balance July 31, 1911
Support Fund.....	.....	\$1,072,598.84	\$1,072,598.84	\$1,011,547.66	\$61,051.18
Special University Support.....	\$11,199.54	137,833.29	149,032.83	128,105.74	20,927.09
Special University Repairs.....	8,979.26	33,902.24	42,881.50	25,781.27	17,100.23
Special Farm Support.....	60,313.14	67,431.57	127,744.71	118,092.04	9,652.67
Special Farm Repairs.....	2,856.92	10,019.13	12,876.05	12,770.85	105.20
Sub-Station Support.....	8,375.24	58,079.64	66,454.88	66,002.71	452.17
	\$91,724.10	\$1,379,864.71	\$1,471,588.81	\$1,362,300.27	\$109,288.54
Transfers and entries other than uni- versity maintenance expenditures charged to accounts, Table VII .....	.....	.....	.....	107,440.44	.....
Net Expenditures for Maintenance....	.....	.....	.....	\$1,254,859.83	.....

TABLE VI

CREDITS TO MAINTENANCE FUNDS

	Item	Amount
1. Standing Appropriations:		
23-100 Mill Tax.....	3	\$285,284.49
Fruit Farm Investigation..	65	2,000.00
2. Annual Appropriations:		
General Appropriation.....	2	200,000.00
Sundry Special Supports....	14-15-17-18-20-22- 23-24-25-27-29-31- 37-40-42-43-44-45- 46-48-49-51-52-53- 58-59-63-71-76-81- 83-85-88-91-93-96- 97-100-101	233,400.00
3. Advance on Mill Tax.....	4	100,000.00
4. Deficiency Appropriation.....	5	130,000.00
5. Fees and Tuition.....	200	157,449.44
6. Agricultural Sales and Tuition.	202	29,485.48
7. Interest on Investments:		
Federal Land Grant.....	201	58,865.55
Swamp Land Interest.....	206	8,047.55
8. Federal Appropriations.....	205	79,997.99
9. Miscellaneous Receipts.....	19-28-30-32-34-47- 50-54-66-72-74-92- 94-98-102-203-207- 208	33,508.84
10. Contingent Funds Re-Credited	56	300.00
11. Dental Infirmary.....	204	9,821.32
12. Transfers.....	6-7-8-13-36	48,594.39
13. Overdrafts.....	57-67-99-103	3,109.66
		<hr/>
		\$1,379,864.71

TABLE VII

TRANSFERS AND ENTRIES OTHER THAN MAINTENANCE
EXPENDITURE CHARGED TO ACCOUNTS

	Item	Amount
Overdraft Support Fund August 1, 1910.....	1	\$42,635.63
Transferred from Support to Fuel Fund.....	10	42,484.91
Transferred from Elliot Hospital to Support Fund.....	16	5,402.91
Transferred from Hatch Fund to Support.....	78	426.69
Transferred from Adams Fund to Support.....	80	266.12
Canceled by State Auditor.....	21-26-39-41-60-62- 68-70-87-90-95	6,402.86
Supplies purchased from Dental Infirmary receipts.....	204	9,821.32
		<hr/> \$107,440.44

TABLE VIII
SUMMARY OF BUILDING AND EQUIPMENT FUNDS

	Balance Aug. 1, 1910	Received	Total	Expen- ditures	Balance July 31, 1911
University Buildings.....	\$659,207.53	\$662,687.45	\$1,321,894.98	\$502,493.84	\$819,401.14
Farm Buildings.....	62,902.86	137,010.50	199,913.36	75,016.15	124,897.21
University Equipment.....	8,036.37	239,700.00	247,736.37	14,380.77	233,355.60
Farm Equipment.....	3,268.17	10,538.68	13,806.85	5,944.40	7,862.45
Sub-Station Buildings.....	18,659.11	43,986.72	62,645.83	61,143.28	1,502.55
Sub-Station Equipment.....	373.70	.....	373.70	373.70	.....
Items charged to Building and Equip- ment Funds not properly expense, Table XI	\$752,447.74	\$1,093,923.35	\$1,846,371.09	\$659,352.14	\$1,187,018.95
Net Expenditures for Building and Equipment.....	.....	.....	.....	216,131.53	.....
	.....	.....	.....	\$443,220.61	.....

TABLE IX

RECONCILING BALANCES JULY 31, 1911 AS INCLUDED IN SUMMARY FOR
1910-11 WITH BALANCES AUGUST 1, 1911 AS INCLUDED IN SUMMARY
FOR 1911-12

University Buildings, Summary 1910-11, Balance July 31, 1911.....	\$819,401.14	
University Buildings, Summary 1911-12, Balance August 1, 1911.....	818,329.45	
	<hr/>	\$1,071.69
Elliot Hospital Site Fund was not carried on the regular University books until after August 1, 1911. Treated in the 1911-12 report as a receipt. See item No. 148....	\$5,630.31	
Millard Hall Fire Loss Contents, included in the Table of Equipment Expenditures in table of 1910-11, was transferred to Fire-Proofing Old Millard Hall Fund by State Auditor August 1, 1912 and in order to show the credit balance July 31, 1912 was included in the Table of Building Appropriations. See item No. 140.....	4,558.62	
	<hr/>	\$1,071.69
University Equipment, Summary 1910-11, Balance July 31, 1911.....	\$233,355.60	
University Equipment, Summary 1911-12, Balance August 1, 1911.....	228,796.98	
	<hr/>	\$4,558.62
Millard Hall Fire Loss, included in Table of Building Funds in summary of 1911-12 and in Equipment Table of 1910-11.....		\$4,558.62
Total Balance Building Fund Summary, July 31, 1911.....	\$1,187,018.95	
Total Balance Building and Equipment Fund Summary, August 1, 1911.....	1,181,388.64	
	<hr/>	\$5,630.31
Elliot Hospital Site Fund, treated as a receipt during fiscal year ending July 31, 1912.....		\$5,630.31

TABLE X

CREDITS TO BUILDING AND EQUIPMENT FUND

	Item	Amount
Appropriations.....	106-112-118-126- 133-136-139-141- 146-159-161-162- 163-164-165-171- 181-183-185-192- 195	\$850,942.00
Campus Extension Levy.....	111	213,818.68
Sale of Campus Houses.....	113	12,063.06
Miscellaneous Receipts.....	109-128-140-172	2,597.66
Transfers.....	119-176-186-188	14,501.95
		<hr/> \$1,093,923.35

TABLE XI

ITEMS CHARGED TO BUILDING AND EQUIPMENT FUNDS NOT
PROPERLY EXPENSE

	Item	Amount
Redemption of Certificates of In- debtedness.....	117	\$125,000.00
Homeopathic Building Appropria- tion canceled by State Auditor.	122	50,000.00
Repairing, Millard Hall Fire Loss.	123	13,563.12
Canceled by State Auditor.....	105-130-135-138- 143-145-148-150- 153-155-157-160- 167-173-175-178- 180-182-189-191- 194-197-199	12,275.70
Transfers.....	125-132-170-184	15,292.71
		<hr/> \$216,131.53

STATEMENT OF FUNDS SHOWING CREDITS AND DEBITS, ALSO BALANCES

NOTE.—Items in “Received” column are appropriations unless otherwise designated.

TABLE XII

SUPPORT FUND

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
1. Overdraft August 1, 1910.....	\$ 42,635.63	.....
2. General Appropriation.....	\$200,000.00	.....	.....	.....
3. 23-100 Mill Tax.....	285,284.49	.....	.....	.....
4. Advanced on 23-100 Mill Tax...	100,000.00	.....	.....	.....
5. Deficiency Appropriation.....	130,000.00	.....	.....	.....
6. Transferred from Adams Fund...	266.12	.....	.....	.....
7. Transferred from Hatch Fund..	426.69	.....	.....	.....
8. Transferred from Elliot Hospital Support.....	5,402.91	.....	.....	.....
9. Miscellaneous, Table XXIV	351,218.63	\$1,072,598.84	921,024.21	.....
10. Transferred to Fuel Fund.....	42,484.91	.....
11. Paid Elliot Hospital Expenses...	5,402.91	\$61,051.18
	\$1,072,598.84	\$1,072,598.84	\$1,011,547.66	\$61,051.18

TABLE XIII
UNIVERSITY SPECIAL SUPPORT FUNDS

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
12. Fuel Fund.....	\$4,669.04	.....	.....	.....	.....
13. Transferred from Support.....	.....	\$42,484.91	\$47,153.95	\$47,153.95	.....
14. Elliot Hospital.....	57.81	15,000.00	.....	.....	.....
15. Deficit Appropriation.....	.....	33,700.00	48,757.81	31,406.73	.....
16. Transferred to University Support.....	.....	.....	.....	5,402.91	\$11,948.17
17. University Library.....	851.23	10,000.00	10,851.23	9,384.93	1,466.30
18. Periodicals.....	129.58	2,500.00	.....	.....	.....
19. Miscellaneous Receipts.....	.....	32.00	2,661.58	2,616.91	44.67
20. Law Library.....	2,676.08	5,000.00	7,676.08	1,987.55	.....
21. Canceled by State Auditor.....	.....	.....	.....	688.53	5,000.00
22. Cataloguing Library.....	265.24	2,500.00	2,765.24	2,310.24	455.00
23. School of Mines Support.....	.....	5,000.00	5,000.00	5,000.00	.....
24. School of Mines Instructors.....	.....	4,500.00	4,500.00	4,500.00	.....
25. Homeopathic Support.....	.....	5,000.00	5,000.00	.....	.....
26. Canceled by State Auditor.....	.....	.....	.....	5,000.00	.....
27. College of Education.....	998.65	5,000.00	.....	.....	.....
28. Miscellaneous Receipts.....	.....	20.00	6,018.65	4,984.09	1,034.56
29. Department of Economics.....	1,551.91	5,000.00	.....	.....	.....
30. Miscellaneous Receipts.....	.....	2,096.38	8,648.29	7,669.90	978.39
	<u>\$11,199.54</u>	<u>\$137,833.29</u>	<u>\$149,032.83</u>	<u>\$128,105.74</u>	<u>\$20,927.09</u>

TABLE XIV
UNIVERSITY REPAIR FUNDS

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
31. *University Repairs.....	\$1,944.56	\$18,480.87	.....	.....	.....
32. Miscellaneous Receipts.....	.....	60.18	\$20,485.61	\$12,701.17	\$7,784.44
33. Rents, University Campus.....	4,044.48	.....	.....	.....	.....
34. Miscellaneous Receipts.....	.....	12,347.43	16,391.91	8,310.88	8,081.03
35. Medical Building Insurance.....	271.73	.....	.....	.....	.....
36. Transferred from Fire Loss Anatomy Building.....	.....	13.76	285.49	.....	285.49
37. University Campus Repairs.....	2,718.49	3,000.00	5,718.49	4,769.22	949.27
	<hr/> \$8,979.26	<hr/> \$33,902.24	<hr/> \$42,881.50	<hr/> \$25,781.27	<hr/> \$17,100.23

*An appropriation of \$25,000 for Repairs was made and originally divided as follows:
 To University—\$20,000
 To Farm School—\$5,000

The books show, however, an expenditure of \$1,519.13 in excess of the Farm allotment. The amount has been arbitrarily adjusted.

TABLE XV

UNIVERSITY FARM SPECIAL SUPPORT FUNDS

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
38. Itasca State Park.....	\$ 45.48	.....	\$ 45.48	.....	.....
39. Balance Canceled by State Auditor.....	.....	.....	.....	\$ 45.48	.....
40. Horticultural Crops.....	975.53	\$1,000.00	1,975.53	1,447.31	.....
41. Canceled by State Auditor.....	.....	.....	.....	55.59	\$ 472.63
42. Field Crops.....	669.15	3,500.00	4,169.15	3,797.34	371.81
43. Hog Cholera.....	55.86	4,000.00	4,055.86	3,218.82	837.04
44. Dairy Extension.....	252.51	2,500.00	2,752.51	2,740.49	12.02
45. Injurious Insects.....	104.12	1,000.00	1,104.12	906.63	197.49
46. Forestry School Support.....	1,161.44	4,000.00	.....	.....	.....
47. Miscellaneous Receipts.....	.....	40.00	.....	5,244.53	.....
48. Forestry School Instructors.....	2,486.58	5,000.00	.....	5,870.01	.....
49. Forest Experiments.....	1,706.59	2,500.00	.....	4,473.44	.....
50. Miscellaneous Receipts.....	.....	629.86	17,524.47	.....	1,936.49
51. Plant Diseases.....	37.33	400.00	437.33	337.69	99.64
52. Tobacco Culture.....	594.25	2,000.00	2,594.25	1,499.01	1,095.24
53. Eradication Noxious Weeds.....	274.93	1,000.00	.....	.....	.....
54. Miscellaneous Receipts.....	.....	110.00	1,384.93	960.90	424.03

TABLE XV—Continued

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
55. Agricultural Extension.....	\$33,752.97				
56. Transferred from Agricultural Contingent.....		\$ 300.00			
57. Overdraft.....		1,976.41	\$36,029.38	\$36,029.38	
58. Poultry.....	20.93	2,500.00	2,520.93	2,497.26	\$ 23.67
59. Soil Inspection.....	1,087.74	1,000.00	2,087.74	1,347.85	
60. Canceled by State Auditor....				106.75	633.14
61. Grain Laboratory.....	751.07		751.07	687.08	
62. Balance Canceled by State Auditor.....				63.99	
63. Drainage Problems.....	760.10	2,000.00	2,760.10	1,797.00	963.10
64. Entomological Charts.....	16.70		16.70	16.70	
65. Fruit Breeding Farm.....	.09	2,000.00			
66. Miscellaneous Receipts.....		396.15			
67. Overdraft.....		267.51	2,663.75	2,663.66	
68. Balance Canceled by State Auditor.....				.09	
69. Alcohol Plant.....	6,002.50		6,002.50	5,884.94	
70. Balance Canceled by State Auditor.....				117.56	
71. Library, School of Agriculture...	72.94	2,500.00			
72. Miscellaneous Receipts.....		300.00	2,872.94	2,839.78	33.16

TABLE XV—Continued

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
73. Military Instruction.....	\$ 518.30	.....	.....	.....	.....
74. Miscellaneous Receipts.....	.....	\$ 11.64	\$ 529.94	.....	.....
75. Canceled by State Auditor....	.....	.....	.....	\$ 529.94	.....
76. Seed for Burnt-over Land, Agri- culture .....	.....	25,000.00	25,000.00	24,289.22	\$ 710.78
77. Hatch Fund.....	3,034.96	.....	3,034.96	2,608.27	.....
78. Transferred to University Sup- port.....	.....	.....	.....	426.69	.....
79. Adams Fund.....	1,415.85	.....	1,415.85	1,149.73	.....
80. Transferred to University Sup- port.....	.....	.....	.....	266.12	.....
81. Board of Regents Timber.....	1,375.22	1,500.00	2,875.22	1,575.04	1,300.18
82. Forest Lands.....	3,140.00	.....	3,140.00	2,597.75	542.25
	<hr/> \$60,313.14	<hr/> \$67,431.57	<hr/> \$127,744.71	<hr/> \$118,092.04	<hr/> \$9,652.67

TABLE XVI
UNIVERSITY FARM REPAIR FUNDS

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
84. Farm Repairs*.....	\$2,145.12	\$6,519.13	\$8,664.25	\$8,664.25	.....
85. Campus Repairs, Agriculture.....	413.00	1,000.00	1,413.00	1,319.22	\$93.78
86. Greenhouse Repairs.....	292.74	.....	292.74	.....	.....
87. Balance Canceled by State Auditor.....	.....	.....	.....	292.74	.....
88. Home Building.....	.....	2,500.00	2,500.00	2,488.58	11.42
89. Veterinary Building.....	6.06	.....	6.06	.....	.....
90. Canceled by State Auditor....	.....	.....	.....	6.06	.....
	\$2,856.92	\$10,019.13	\$12,876.05	\$12,770.85	\$105.20

*See note University Repair Funds, page 85.

TABLE XVII

SUB-STATION SUPPORT FUNDS

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
91. Crookston School Support.....	\$4,218.58	\$15,000.00	.....	.....	.....
92. Miscellaneous Receipts.....	.....	1,243.64	\$20,462.22	\$20,251.37	\$210.85
93. Grand Rapids Support.....	1,880.83	7,000.00	.....	.....	.....
94. Miscellaneous Receipts.....	.....	3,561.73	12,442.56	12,280.26	.....
95. Canceled by State Auditor.....	.....	.....	.....	26.07	136.23
96. Morris Farm Maintenance.....	.....	2,000.00	2,000.00	1,894.91	105.09
97. Crookston Sub-Station.....	2,265.83	8,000.00	.....	.....	.....
98. Miscellaneous Receipts.....	.....	3,363.89	.....	.....	.....
*99. Overdraft.....	.....	309.46	13,939.18	13,939.18	.....
100. Morris School Support.....	10.00	5,000.00	.....	.....	.....
101. Additional Appropriation.....	.....	10,300.00	.....	.....	.....
102. Miscellaneous Receipts.....	.....	1,744.64	.....	.....	.....
*103. Overdraft.....	.....	556.28	17,610.92	17,610.92	.....
	\$8,375.24	\$58,079.64	\$66,454.88	\$66,002.71	\$452.17

*Overdraft paid from succeeding years' appropriations. See items 122 and 130.

TABLE XVIII

UNIVERSITY BUILDINGS

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
104. University Water Mains.....	\$ 1,049.55	.....	\$ 1,049.55	\$ 89.18	.....
105. Canceled by State Auditor.....	.....	.....	.....	960.37	.....
106. University Heating Plant.....	96,178.88	\$ 50,000.00	146,178.88	23,854.29	\$122,324.59
107. Elliot Hospital Building.....	20,102.84	.....	.....	.....	.....
108. Elliot Hospital Fund.....	119,969.02	.....	.....	.....	.....
109. Interest.....	.....	1,357.51	141,429.37	109,521.78	31,907.59
110. University Campus Extension....	84,391.89	.....	.....	.....	.....
111. Tax Collections.....	.....	213,818.68	.....	.....	.....
112. New Engineering Buildings....	.....	75,000.00	.....	.....	.....
113. Sale of Houses.....	.....	12,063.06	385,273.63	.....	.....
114. Paid New Engineering Buildings	.....	.....	.....	70,708.77	.....
115. Campus Extension.....	.....	.....	.....	13,205.25	.....
116. Interest on Certificates.....	.....	.....	.....	15,996.88	.....
117. Redemption of Certificates.....	.....	.....	.....	125,000.00	160,362.73
118. Institute of Anatomy.....	191,527.71	43,342.00	.....	.....	.....
119. Transferred from General Medical Building.....	.....	500.00	.....	.....	.....
120. Transferred from Loss on Anatomy Building.....	8,167.00	.....	243,536.71	8,958.08	234,578.63
121. Homeopathic Building.....	50,000.00	.....	50,000.00	.....	.....
122. Canceled by State Auditor.....	.....	.....	.....	50,000.00	.....

TABLE XVIII—Continued

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
123. Millard Hall Building Fire Loss.	\$18,894.53	.....	\$ 18,894.53	\$13,563.12	\$ 5,331.41
124. University Ladies' Dormitory....	63,502.00	.....	63,502.00	48,348.70	.....
125. Transferred to Equipment Fund.....	.....	.....	.....	9,500.00	5,653.30
126 General Medical Building, New Millard Hall.....	.....	\$266,400.00	266,400.00	12,787.42	253,612.58
*127. Elliot Hospital Site Fund.....	5,424.11	.....	.....	.....	.....
128. Interest.....	.....	206.20	5,630.31	.....	5,630.31
	<hr/> \$659,207.53	<hr/> \$662,687.45	<hr/> \$1,321,894.98	<hr/> \$502,493.84	<hr/> \$819,401.14

*This fund not carried on University General Books. Deposited in bank by J. D. Bren.

TABLE XIX

UNIVERSITY FARM BUILDINGS

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
129. Pendergast Hall.....	\$ 727.44	.....	\$ 727.44	\$ 725.00	.....
130. Canceled by State Auditor.....	.....	.....	.....	2.44	.....
131. Ladies' Dormitory, School of Agriculture.....	49,296.00	.....	49,296.00	43,780.77	.....
132. Transferred to equipment.....	.....	.....	.....	5,515.23	.....
133. Mechanical Building, Farm.....	.....	\$100,000.00	100,000.00	1,200.00	\$98,800.00
134. Heating Plant, School of Agri- culture.....	1,183.94	.....	1,183.94	.....	.....
135. Canceled by State Auditor.....	.....	.....	.....	1,183.94	.....
136. Coal Bunkers.....	.....	6,000.00	6,000.00	395.60	5,604.40
137. Dairy Barn.....	161.33	.....	161.33	160.86	.....
138. Canceled by State Auditor.....	.....	.....	.....	.47	.....
139. Dairy Pavilion.....	.....	15,000.00	.....	.....	.....
140. Refund.....	.....	10.50	15,010.50	1,398.04	13,612.46
141. Dairy Hall.....	.....	15,000.00	15,000.00	9,056.72	5,943.28
142. Farm Lands.....	2,917.97	.....	2,917.97	.....	.....
143. Canceled by State Auditor.....	.....	.....	.....	2,917.97	.....
144. Water Tower and Tank.....	940.04	.....	940.04	.....	.....
145. Canceled by State Auditor.....	.....	.....	.....	940.04	.....
146. Water Mains, School of Agri- culture.....	700.00	1,000.00	1,700.00	762.93	937.07

TABLE XIX—Continued

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
147. Well and Pump, School of Agriculture.....	\$ 26.36	.....	\$ 26.36	\$ 26.04	.....
148. Canceled by State Auditor.....	.....	.....	.....	.32	.....
149. Lands, School of Agriculture.....	3,238.67	.....	3,238.67	.....	.....
150. Canceled by State Auditor.....	.....	.....	.....	3,238.67	.....
151. Animal House, Physiology.....	2,500.00	.....	2,500.00	2,500.00	.....
152. Barn, School of Agriculture.....	8.75	.....	8.75	.....	.....
153. Canceled by State Auditor.....	.....	.....	.....	8.75	.....
154. Grading Larpenteur Avenue.....	452.45	.....	452.45	400.70	.....
155. Canceled by State Auditor.....	.....	.....	.....	51.75	.....
156. Sewers, School of Agriculture.....	749.91	.....	749.91	602.06	.....
157. Canceled by State Auditor.....	.....	.....	.....	147.85	.....
	<u>\$62,902.86</u>	<u>\$137,010.50</u>	<u>\$199,913.36</u>	<u>\$75,016.15</u>	<u>\$124,897.21</u>

TABLE XX

UNIVERSITY EQUIPMENT

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
158. University Main Building.....	\$ 325.47	.....	\$ 325.47	\$ 325.47	.....
159. University Ladies' Dormitory Equipment.....	.....	.....	.....	.....	.....
Transferred from Ladies' Dor- mitory.....	.....	\$ 9,500.00	9,500.00	9,498.80	.....
160. Canceled by State Auditor.....	.....	.....	.....	1.20	.....
161. Elliot Hospital.....	.....	43,000.00	43,000.00	645.85	\$42,354.15
162. Institute of Anatomy.....	.....	67,200.00	67,200.00	.....	67,200.00
163. New Engineering Building.....	.....	32,000.00	32,000.00	.....	32,000.00
164. Engineering Laboratory Equip- ment.....	.....	28,000.00	28,000.00	644.67	27,355.33
165. General Medical Building.....	.....	60,000.00	60,000.00	112.50	59,887.50
166. Bacteriological Laboratory.....	299.95	.....	299.95	.....	.....
167. Canceled by State Auditor.....	.....	.....	.....	299.95	.....
168. Millard Hall Fire Loss Contents.	6,702.14	.....	6,702.14	2,143.52	4,558.62
169. Anatomical Contents.....	708.81	.....	708.81	695.05	.....
170. Transferred to Medical Build- ing Insurance.....	.....	.....	.....	13.76	.....
	<hr/> \$8,036.37	<hr/> \$239,700.00	<hr/> \$247,736.37	<hr/> \$14,380.77	<hr/> \$233,355.60

TABLE XXI

UNIVERSITY FARM EQUIPMENT

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
171. Live Stock.....	\$3,171.86	\$4,000.00	.....	.....	.....
172. Miscellaneous Receipts.....	.....	1,023.45	\$8,195.31	\$2,485.23	.....
173. Canceled by State Auditor.....	.....	.....	.....	1,710.08	\$4,000.00
174. Main Building, School of Agri- culture.....	96.31	.....	96.31	.....	.....
175. Canceled by State Auditor.....	.....	.....	.....	96.31	.....
176. Ladies' Dormitory Equipment Transferred from Dormitory Building.....	.....	5,515.23	5,515.23	1,652.78	3,862.45
	\$3,268.17	\$10,538.68	\$13,806.85	\$5,944.40	\$7,862.45

TABLE XXII

SUB-STATION BUILDINGS

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
177. Crookston Drainage.....	\$505.38	.....	\$505.38	\$368.06	.....
178. Canceled by State Auditor.....	.....	.....	.....	137.32	.....
179. Crookston Root Cellar.....	207.78	.....	207.78	184.74	.....
180. Canceled by State Auditor.....	.....	.....	.....	23.04	.....

TABLE XXII—Continued

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
181. Swine Barn, Crookston.....	.....	\$ 1,500.00	\$ 1,500.00	\$ 1,489.50	.....
182. Canceled by State Auditor.....	.....	.....	.....	10.50	.....
183. Slaughter House, Crookston.....	.....	1,000.00	1,000.00	622.00	.....
184. Transferred to Ladies' Dormi- tory.....	.....	.....	.....	263.72	\$ 114.28
185. Girls' Dormitory.....	.....	25,000.00	.....	.....	.....
186. Transferred from Slaughter House.....	.....	263.72	25,263.72	25,263.72	.....
187. Crookston Library and Drill Hall.	\$13,980.85	.....	.....	.....	.....
188. Transferred from Girls' Dor- mitory.....	.....	8,223.00	22,203.85	22,189.91	.....
189. Canceled by State Auditor.....	.....	.....	.....	13.94	.....
190. Crookston Industrial Building..	686.90	.....	686.90	516.00	.....
191. Canceled by State Auditor.....	.....	.....	.....	170.90	.....
192. Grand Rapids Drainage.....	3,214.63	3,000.00	6,214.63	5,212.42	1,002.21
193. Grand Rapids Dairy Building...	63.57	.....	63.57	.....	.....
194. Canceled by State Auditor.....	.....	.....	.....	63.57	.....
195. Morris School Repairs.....	.....	5,000.00	5,000.00	4,613.94	386.06
	\$18,659.11	\$43,986.72	\$62,645.83	\$61,143.28	\$1,502.55

TABLE XXIII
SUB-STATION EQUIPMENT

	Balance Aug. 1, 1910	Received	Total	Expended	Balance July 31, 1911
196. Crookston School Building and Equipment.....	\$221.16	.....	\$221.16	.....	.....
197. Canceled by State Auditor.....	.....	.....	.....	\$221.16	.....
198. Crookston Dormitory and Equip- ment.....	152.54	.....	152.54	77.39	.....
199. Canceled by State Auditor.....	.....	.....	.....	75.15	.....
	<u>\$373.70</u>	<u>.....</u>	<u>\$373.70</u>	<u>\$373.70</u>	<u>.....</u>

TABLE XXIV

RECEIPTS CREDITED TO UNIVERSITY SUPPORT FUND

200.	Fees and Tuitions.....	\$157,449.44
201.	Interest on Investments.....	58,865.55
202.	Agricultural Sales and Tuition.....	29,485.48
203.	Agricultural Experiment Sales.....	4,827.32
204.	Dental Infirmary.....	9,821.32
205.	From Federal Government.....	79,997.99
206.	Swamp Land Interest.....	8,047.55
207.	University Miscellaneous Receipts.....	2,431.70
208.	Interest on Bank Deposits.....	292.28
		<hr/>
		\$351,218.63

FINANCIAL REPORT
FOR THE
FISCAL YEAR ENDING JULY 31, 1912

FINANCIAL REPORT

To the President of the University:

SIR: I have the honor to submit herewith my report as Comptroller of the University of Minnesota covering its financial operations for the fiscal year ending July 31, 1912. The year has been a constructive period, as a complete re-organization of the system has been instituted and the budget system adopted.

THE ORGANIZATION

Comptroller	Chief Clerk and Acting Purchasing Agent	Assistant Price Clerk Order Clerk Invoice Clerk	
	Auditor	Accountant	Cashiers Bookkeeper Budget Clerk Rent Collector
		File Clerk Pay-roll Clerk Stenographers Statistician Inventory Clerk	
	Superintendent of Buildings and Grounds	Assistant Telephone Operators Engineers Mechanics Electricians Plumbers Carpenters Tinnern Painters Campus Men	Stenographer Bookkeepers Storekeeper Janitors Watchmen Teamster

The Budget System.—The fiscal year ending July 31, 1912, marks the beginning of the University under the "budget system" and the result has been most gratifying to the State Officials, the Administration, and the Faculty. The funds of the University are derived from tuition and other fees, interest on investments, appropriations by the Federal Government, collections from the 23-100 mill tax levy, and direct appropriations. In preparing the budget the funds are carefully estimated and, after retaining a safe reserve, are apportioned to departments. Each college is given a section in the budget and each division of the college detailed as to pay-roll; each name or position given a pay-roll item number and each appropriation for supplies given a budget number. Should a department have appropriations from two or more funds, each is given a separate budget number.

SAMPLE PAGE OF BUDGET

SECTION C. SCHOOL OF BLANK

Name or Item	Office	Total	Chargeable to		
			Support	Specials	
				12	14
ADMINISTRATION					
1. Peter Smith	Dean and Professor Office Assistant	\$4,000	\$1,750	\$2,250	
2. Mary Jones		840	840		
Total Administration		\$4,840	\$2,590	\$2,250	
INSTRUCTION					
Peter Smith	See Admin.				
3. John Doe	Professor	\$3,500	\$1,250	\$2,250	
4. James Doe	Professor	2,200	800	1,400	
5. Carl Doe	Professor	2,200	800	1,400	
6. Edward Doe	Professor	2,200	800	1,400	
7. William Doe	Professor	2,200	1,100		\$1,100
8. John Brown	Asst. Prof.	2,200	1,200		1,000
9. E. L. Brown	Asst. Prof.	1,700	900	800	
10. Paul Jones	Instructor	1,200	1,200		
11. W. R. Jones	Instructor	1,200	1,200		
12. Charles Long	Com. Asst.	1,000			1,000
13. R. L. White	Dom. Asst.	1,800			1,800
14. G. M. White	Mechanic	1,080	1,080		
15. James Green	Helper	800	800		
16. Charles Green	Helper	720	720		
Total Pay-roll		\$28,840	\$14,440	\$9,500	\$4,900
1. Supplies		6,000	6,000		
2. Supplies		5,100			5,100
Total Section C		\$39,940	\$20,440	\$9,500	\$10,000

12. Support

14. Experiment

Pay-Rolls and Record.—The pay-roll record is ostensibly a copy of the pay-roll budgets of the several departments and in addition shows the monthly allowance and has columns for entering the rolls of the twelve months. Pay-rolls are made from the pay-roll record after such changes in the personnel, etc., as are necessary, are reported by the college

deans. One original and three carbon copies are made, two of which are signed by the individuals. The original signed pay-roll is included in an abstract to the State Auditor, who draws warrants on the several funds as indicated by a summary of the abstract and forwards to the State Treasurer who draws individual checks from the pay-roll copy sent him. Entries are made in the pay-roll record from the duplicate signed copy of the pay-roll which is retained in the Business Office. The fourth copy is retained in the departments until near the close of the month, when such changes as are necessary for the succeeding month are indicated and forwarded to the Business Office. Quarterly abstracts of the pay-roll record, showing total appropriation, amount authorized to pay for the time elapsed, and amount actually paid, are made and submitted to the President and Board of Regents.

The Supply Budget Ledger.—A record account is kept with each supply budget. The ledger provides debit and credit columns and columns for entering department number, budget committee number of each requisition, also estimated cost, actual cost, and reference. At the head of each page is stamped the fund from which the appropriation is made. The appropriations are credited in the budget ledger in numerical order. Until invoices giving the actual cost are received, the accumulated footings of the estimates are carried into the debit column in pencil and whenever the budget ledger is balanced the sum of the requisitions on which the actual cost is known is carried into the debit column in red ink, and the sum of the requisitions still in estimate form are carried into the debit column in pencil. The first red ink debit

SAMPLE PAGE OF SUPPLY LEDGER

DIVISION OF BUDGET No. 275

Dep't	Req. No.	Date	REQUISITIONS			EXPENDITURES		
			Ref.	Est. Cost	Actual Cost	Ref.	Debit	Credit
483	1580	Sept. 15	2*	38.00	34.13	1	158.82	1,330.00
543	1730	Sept. 19	1	20.07	23.67	2	67.47	1,171.18
542	1766	Sept. 19	1	27.50	31.29			1,103.71
629	1944	Sept. 26	3	15.50	22.12			144.00
735	2414	Oct. 10	4	23.75	16.48	3	29.60	1,247.71
776	2569	Oct. 17	1	21.19	19.38	4	160.26	1,218.11
1037	3497	Nov. 17		101.77				1,057.85
1036	3503	Nov. 17	2	19.00	19.09		277.27	780.58
1153	4009	Dec. 7	4	18.60	21.75			
1296	4462	Dec. 26 1912	1	84.48	84.48			
1350	4704	Jan. 8		50.00				
1423	5097	Jan. 17	3	7.48	7.48			
1816	6450	Mar. 20		75.00				
2112	7566	Apr. 26	2	12.30	12.30			
2289	8245	May 21	2	1.95	1.95			
2342	8446	May 29	4	122.03	122.03			
2380	8454	May 31		14.95				
2419	8607	June 7		30.72	416.15			
2625	9236	July 5		4.83				
				**227.27				

*Bold face figures represent figures in red ink.

**Italic figures represent figures in pencil.

would be reference "1" and the requisitions making up the total would each be marked reference "1"; second red ink debit would be marked "2" and the requisitions making up the charge would each be marked "2," etc. Abstracts showing the condition of the budget ledger are made quarterly or oftener and submitted to the President and Board of Regents.

Requisitions.—Departments are requested to make requisitions for supplies sufficiently in advance of requirement to enable a careful scrutiny of all items and give ample time to secure competitive bids. Each sheet is considered a separate requisition, gives the department's serial number and the budget number to which the same is to be charged. Items on each sheet are numbered from one up and the estimated cost of each given. Four copies are typewritten, one retained in the department, three signed by the head of the department, sent to the Dean for approval, one remaining in the office of the Dean, two endorsed by the Dean and sent to the budget clerk in the Business Office to be given a budget committee number, entered in the budget ledger, and the available budget balance entered on the requisition.

Approval of requisitions.—From the budget clerk the requisitions are sent to the Budget Committee (President and Comptroller). Should the supplies be ordinary, the Committee approves for immediate purchase; any extraordinary items are held awaiting action of the Board. All requisitions, together with abstracts of the same, are presented to the Board of Regents with notations calling attention to such items as have not been approved by the Committee.

Purchasing.—No purchase is made except on a requisition which bears evidence of having been charged in the budget ledger and then only through the purchasing department, except small cash purchases for which contingent funds are provided. As far as practicable, written inquiries for prices, numbered consecutively, are mailed, as these invariably reach a more important personage in the firm. A mailing list classified by supplies, giving a list of the firms, is maintained, and an office copy of each inquiry, on which is noted the firms to whom sent, is filed in a special filing cabinet having compartments with removable labels numbered correspondingly. Quotations, when received, are arranged numerically and filed in the compartments. Each inquiry and compartment label gives date on which proposals are due. The proposals are tabulated and checked for order unless a question as to quality arises, or, upon request, they are submitted to departments for recommendation. It is frequently necessary to telephone for prices and, when consistent, at least three firms are called. A special form is used on which is noted the name of the clerk calling for prices, the name of the firm and representative giving same, and prices quoted. These are numbered in sequence with written inquiries and, when orders are placed, transferred to a contract file in numerical order.

Price record.—The judicious purchase of supplies requires careful study of specifications. The department is now compiling an index price record giving name of special material, followed by different speci-

fications should there be more than one grade. If requisitions do not specify grade, the same will be referred back to departments. The time thus consumed will be more than recompensed by furnishing the department with that which it desires and in saving correspondence in arranging for replacement. Quantities will also be entered with a view of ascertaining requirements and combining in annual contracts.

Orders.—The order system constitutes a very important and complete record in the Business Office, unfilled orders representing the entire outstanding obligations. Five copies of each order are made by using two double faced carbons and two tissue sheets. On each is given the requisition number, budget number, contract number, date delivery is due, department and place of delivery, and contract price of each item. The original goes to the party from whom the supplies are purchased, the duplicate to the unfilled file in the purchasing department, the triplicate to the department making the requisition, and the fourth and fifth copies are used as a tracer system, the fifth being retained in the purchasing department in a tickler file under the date material is due and the fourth sent to the department to be used as a receiving record and, as soon as the goods are received, returned to the purchasing department when the corresponding copy is removed from the tickler file. This enables the invoice clerk to determine whether or not the goods have been received. Orders remain in the unfilled order file until invoices covering the supplies are received; they are then sent to the budget clerk who enters the actual cost on the requisition and files the order in the closed order file.

Tracing.—The following is a sample of the tracer post card used by the invoice clerk in tracing shipments, invoices, etc.

<div style="text-align: right; margin-bottom: 10px;">Minneapolis, Minn., _____ 191</div> <p>Dear Sirs:—</p> <p>Referring to our Order No.</p> <p><input type="checkbox"/> Have had no notice of shipment. <small>Please advise fully</small></p> <p><input type="checkbox"/> Have received only part of the material. <small>Please advise fully relative to balance</small></p> <p><input type="checkbox"/> Material received, have no invoice. <small>Please send immediately</small></p> <p><input type="checkbox"/> Invoices received but material has not arrived. <small>Please trace</small></p> <p style="text-align: right;">The UNIVERSITY OF MINNESOTA</p>	<div style="text-align: center; margin-bottom: 10px;">No. 2649</div> <div style="text-align: center; margin-bottom: 10px;">POST CARD</div> <div style="text-align: right; margin-bottom: 10px;">No. 2649</div> <div style="text-align: center; margin-bottom: 10px;">P. O. No. 100 _____ 1912</div> <p>With reference to your Tracer No. 2649</p> <p style="text-align: center; margin-top: 10px;">Report on this card or refer to Tracer No.</p>
<div style="text-align: center; margin-bottom: 10px;">POST CARD</div> <div style="text-align: center; margin-bottom: 10px;">The UNIVERSITY OF MINNESOTA</div> <div style="text-align: center; margin-bottom: 10px;">MINNEAPOLIS,</div> <p>Purchasing Agent. MINN.</p>	<div style="text-align: center; margin-bottom: 10px;">No. 2649</div> <div style="text-align: center; margin-bottom: 10px;">POST CARD</div> <div style="text-align: right; margin-bottom: 10px;">No. 2649</div> <div style="text-align: center; margin-bottom: 10px;">P. O. No. 100 _____ 1912</div> <p>With reference to your Tracer No. 2649</p> <p style="text-align: center; margin-top: 10px;">Report on this card or refer to Tracer No.</p>

The post card, return card, and stub all bear the same serial number. The stubs remain on file until the response is received from the firm, when it is removed. The remaining stubs represent unsatisfied tracers. If a repeat tracer is not responded to, the matter is taken up by correspondence.

Invoices.—Invoices in triplicate are requested and as soon as received are checked with the duplicate copy of the order. Each invoice is given a serial number; the original is recorded in a register and filed numerically, the duplicate and triplicate are sent to the departments for approval, the department retaining the triplicate and returning the duplicate. Invoices are followed from the date received until paid. The register gives the date sent to the department and date returned. They are also entered in a card index record, arranged alphabetically by firms. When the invoices are paid, the voucher number is entered on the card.

Vouchers.—Statements in triplicate itemizing approved invoices by dates and amounts are sent to firms or individuals for certification as to the correctness of the account and receipting. Two copies are returned. These together with invoices in duplicate are included in voucher envelopes, the original sent to the State Auditor's office and the duplicate entered in a classification record under date, number, date included in an abstract to the State Auditor and amount, and classified as to commodity, department, whether current budget or previous, as to funds, etc., and filed in numerical order in the Business Office.

Abstracts.—Abstracts of vouchers are made in triplicate; one copy accompanies the vouchers to the office of the State Auditor who draws warrants on the several funds and forwards to the State Treasurer. The duplicate is sent to the State Treasurer who draws checks in favor of the firms or individuals.

Collections.—Fees: Each student, when paying fees, presents a statement issued by the Registrar, indicating semester, college, and details of fees. The Cashier issues a receipt in triplicate for the amount paid giving reference to the Registrar's statement number. The triplicate copy is immediately forwarded to the Registrar's office. The receipts are entered in a receipt register, having columns for each college. Footings are carried forward to the end of the month, when they are posted in the ledger. Refundments are also entered in a place provided in the same register, and the footings at the close of the month posted in the ledger. The trial balance at the close of each month shows the total net fees as a debit balance, and the credit items the total collected for each college.

Miscellaneous receipts: Receipts in duplicate are issued for all moneys (other than fees) collected. These are entered in a register with columns for classification and the monthly footings posted in the ledger. The trial balance shows the total receipts collected as a debit, and the credit items show the total collected for each class. All moneys received are deposited in a bank, designated by the State Treasurer, to the credit of "The University of Minnesota State Treasury Account" and checks drawn in favor of the State Treasurer only will be honored. At the close

of each month a report of collections, together with the check covering, is sent to the State Treasurer. Copies of this report are sent also to the State Auditor and Public Examiner.

Filing.—Special effort has been made to establish a complete and carefully indexed filing system. With the exception of vouchers (the card index accounts with firms affording an index), one general card index, crossed by commodity or subject and firm or individual, is maintained for filing of all papers. Correspondence with reference to quotations is filed with contracts; with reference to orders is filed under order number; and the numeric system used for all miscellaneous correspondence.

Inventory.—Attention is called to the Abstract of Inventory (Table III) which is in accordance with the outline adopted by the Committee, Deans Woods, Frankforter, Shenehon, and the President and Comptroller. The instructions accompanying the outline have resulted in numerous changes in valuations which render comparison with inventories of previous years impractical. The Inventory Clerk is engaged in listing equipment on cards which will be arranged alphabetically; items will be listed separately by departments and, when completed, the system will be of value in the Business Office in checking requisitions.

Campus rents.—There are at present on the new campus fifty-eight houses which bring in an average monthly rental of approximately \$20.00 per month. This low figure is the result of the proximity to building operations. The law appropriates the rents to the improvement and care of the campus. Many of the houses, however, are in a run-down condition and, after necessary repairs are made, there will be but a small margin for campus improvement. The following is a table of collections for the present year:

Uncollected August 1, 1911.....	\$ 1,149.00	
Current rent August 1, 1911 to July 31, 1912.....	12,050.53	
		<hr/>
		\$13,199.53
Rents collected during year.....	\$12,108.03	
Due and unpaid August 1, 1912.....	1,091.50	
		<hr/>
		\$13,199.53

Item 98 of Table XXII, Statement of Funds, shows receipts \$14,622.61, the difference is the amount of rents collected by former treasurer, J. D. Bren, during previous years and credited to this fund in February, 1912.

Bookkeeping.—The budget for 1911-12 was based on the May trial balance together with appropriations and an estimate of receipts. The balances as they appear in the general books have been reconciled with the State Auditor's accounts. It developed, however, when the budget was being prepared, that the accounts of the Agricultural School and Sub-Stations had not been reconciled with the books of the Business Office for several years. The balances of August 1, 1911, have been corrected and the entries for the fiscal year will be reconciled. In comparing our balances with the State Auditor's books the contingent funds must be taken into account, the State Auditor having charged the amount ad-

vanced to the proper funds, whereas the Business Office charged "Contingent Fund" and credited the State of Minnesota. With the beginning of the last fiscal year the Agricultural Dining Hall, Sanford Hall, Shevlin Hall, and Elliot Hospital were included in the budget system. The magnitude of the business of these departments, together with the work of re-organizing the system, has resulted in considerable confusion and the system is not yet working satisfactorily.

I should earnestly recommend the adoption of the Board of Control system of estimating for Dining Halls, and that authority be given to appoint a steward whose duties it should be to spend a portion of his time at each of the dining halls assisting in preparing quarterly estimates and arranging for stock records.

A general storehouse for carrying in stock standard glassware, chemicals, stationery, hardware, fittings, etc., should be established as soon as possible and all supplies received at the storehouse for unpacking and delivering to departments. Requisitions from departments should be sent to the storehouse and such items as can be furnished, be filled from stock, the balance to be included in a general storekeeper's requisition on the purchasing department. Departments should carefully inspect stocks, and all supplies not being used should be returned to the storehouse. There is no doubt but that many requisitions could be filled from stock thus reclaimed. All the scientific departments have mechanical shops, and requisitions for nails, screws, bolts, etc., in less than standard packages and for other materials in small quantities result in the payment of much higher prices for these articles than if they were ordered in large quantities. With the establishment of a trolley system between the University and the Agricultural Department one storehouse could supply the entire University.

Dining Halls and Dormitories.—With the inclusion of the Dining Halls under the budget system, it was considered advisable to credit all moneys to, and make all payments from, the University Support Fund, as there was no other available fund for operation.

There was credited to the Support Fund from the receipts of the Agricultural Dining Hall during the year.....	\$60,529.49
Expenditures.....	58,528.71
<hr/>	
Leaving a credit balance of.....	\$2,000.78
The receipts from Shevlin Hall credited to the Support Fund..	\$11,695.06
Expenditures.....	11,593.60
<hr/>	
Leaving a credit balance of.....	\$101.46
The receipts from Sanford Hall credited to the Support Fund..	\$27,637.12
Expenditures.....	13,495.95
<hr/>	
Leaving a credit balance of.....	\$14,141.17
This does not, however, show the true balance in the case of Sanford Hall, as from June, 1911, until the payment of fees in September, the expenses of the hall were paid from the University Support Fund, and	

no charge was made for heat, light, janitor service, etc. With the beginning of the new year it is proposed to open separate accounts on the University books for each dining hall as per items 14, 15, and 16, Table XIX.

CONTINGENT FUNDS

University Contingent...	{ \$11,750.00 from University Support Fund.
	{ 2,000.00 from Heating Plant Fund.
Elliot Hospital.....	250.00 from University Support Fund.
Farm Contingent.....	{ 4,800.00 from University Support Fund.
	{ 200.00 from Dairy Extension Fund.
Forestry.....	200.00 from Forestry Support Fund.
Fruit Farm.....	100.00 from Fruit Farm Investment Fund.
Crookston.....	500.00 from Crookston Support Fund.
Grand Rapids.....	300.00 from Grand Rapids Support Fund.
Morris.....	500.00 from Morris Support Fund.

Contingent funds are advanced by the State Auditor for making emergency payments such as freight, gas, water, traveling expenses, etc. Vouchers covering these expenditures are made in the regular way and included in abstracts to the State Auditor and State Treasurer for reimbursement of the funds.

IN RE J. D. BREN, TREASURER

On June 2, 1911, the Public Examiner took charge of the funds of Treasurer J. D. Bren, depositing the same with the Minnesota Loan and Trust Company, and such as were involved were not released until February, 1912.

Amounts and Disposition

Received from Bonding Company.....	\$14,310.70	
Found in vault June 9th.....	4,990.00	
Turned over to Public Examiner by Attorney for J. D. Bren, \$710.00 and \$360.98.....	1,070.98	
Deposit Minnesota Loan and Trust Company.....	220.87	
Certificate of Deposit Minnesota Loan and Trust Company.....	4,500 00	
Interest.....	633.18	
		<hr/>
		\$25,725.73
Remitted to State Treasurer:		
January 31, State Auditor's Draft 97937.....	\$14,310.70	
February 27, State Auditor's Draft 98741.....	9,401.96	
		<hr/>
		\$23,712.66

Which Remittances were Credited to Funds:

University Support.....	\$21,261.76	
Covering items: Sanford Hall.....	\$ 4,790.31	
Tuition Fees.....	1,249.52	
Dental Infirmary.	3,707.05	
General Univer-		
sity Miscellane-		
ous	181.33	
Swimming Pool		
University Gym-		
nasium.....	10.00	
Printing Theses....	31.00	
Breakage Deposit.	11,292.55	
University Campus Rents.....		1,848.40
Repairs University.....		401.93
Elliot Hospital Building		113.37
University Extension Work.....		49.60
University Heating Plant.....		37.60
		<hr/>
		\$23,712.66

Credited University Contingent Fund
for Adjustment of Accounts as
follows:

		\$2,013.07
Contingent Fund Shortage.....	\$391.31	
Minnesota Union (four accounts)...	1,231.50	
Debating Board.....	54.46	
Y. M. C. A. Systematic Giving.....	21.65	
Flower Accounts, Janitors, etc.....	6.90	
Henry Bruchholz Deposit .....	.50	
Military Ball Accounts.....	53.00	
Students' Benefit Funds.....	238.50	
Inter-Fraternity Council.....	15.25	
	<hr/>	
		\$2,013.07

SYNOPSIS FROM THE REPORT OF THE SUPERINTENDENT OF
BUILDINGS AND GROUNDS

Considerable time could be saved by having a shop fully equipped with wood working machinery for making special cases, tables, shelving, etc., which can not be selected from standard stocks. The largest item of expense the coming year should be the rewiring of buildings, some of which were wired years ago; extensions have been made from time to time, and the feeders now installed are inadequate to the service rendered. The buildings most in need of re-wiring are the Mechanic Arts Building, Law Building, Library, Pillsbury Hall, Armory, and Mechanical Engineering Building. The Law Building should have new feeders, new main and distributing panels. The wing, which includes the large

reading room and library, is lighted entirely by gas which impoverishes the air, thereby making the room uncomfortable. The Library Building is supposed to be fire-proof, but the book cases in the stack room are all of wood construction and the wiring is all open work with drop cords. The load is exceedingly heavy for the present mains and a complete new installation in conduit with new distributing panels and cabinets should be provided. The wiring in Pillsbury Hall is all open work with drop cords. Branches have been added as needed, overloading the present mains, and conduit installation should be made. The Armory is an exceedingly hazardous building. The wiring is all tube and cleat work, the feeders are overloaded, and the installation of a new system is imperative. The estimated cost for the installation of the new wiring system is \$15,000.

The heating of most of the buildings on the old campus is wasteful. I would earnestly recommend that a thermostatic temperature control be installed in most of the buildings on the old campus, and included in the construction of all new buildings.

TABLE I

SUMMARY OF REPAIRS

	Labor	Material	Supplies	Total
Mechanic Arts Building	\$1,179.62	\$ 984.21	\$102.63	\$2,266.46
Pillsbury Hall.....	502.23	378.05	144.71	1,024.99
Law Building.....	1,132.99	662.23	80.03	1,875.25
Heating Plant.....	1,169.07	1,100.62	37.67	2,307.36
Chemistry Building....	431.06	235.67	95.32	762.05
Old Millard Hall.....	1,167.32	404.63	106.17	1,678.12
Medical Chemistry Building.....	46.51	34.50	12.07	93.08
Library Building.....	1,577.63	1,212.91	316.84	3,107.38
Ore Testing.....	34.64	68.14	.....	102.78
Dentistry and Medical Science.....	313.18	109.45	122.54	545.17
Armory.....	2,055.56	826.40	177.99	3,059.95
Observatory.....	16.22	9.23	.61	26.06
Mechanical Engineer- ing Building.....	184.95	86.66	125.95	397.56
Electrical Engineering Building.....	222.65	62.82	68.23	353.70
Physics Building.....	268.63	127.14	94.06	489.83
Barn.....	2.97	1.20	607.69	611.86
School of Mines Build- ing.....	158.72	43.79	44.02	246.53
Pathology Building....	518.73	220.97	98.06	837.76
Shevlin Hall.....	695.88	163.71	208.07	1,067.66
Folwell Hall.....	867.44	278.10	360.99	1,506.53

TABLE I—*Continued*

	Labor	Material	Supplies	Total
Greenhouse.....	\$ 34.82	\$ 16.87	\$ 29.34	\$ 81.03
Y. M. C. A. Building..	46.57	10.82	8.16	65.55
Animal House.....	68.47	88.47	.....	156.94
Sanford Hall.....	425.05	814.10	314.45	1,553.60
Experimental Building.	369.89	92.92	74.83	537.64
Main Engineering				
Building.....	57.05	.96	.....	58.01
Anatomy Building.....	180.66	119.35	.....	300.01
Millard Hall.....	40.07	15.71	.....	55.78
Miscellaneous				
Buildings.....	418.04	256.87	.....	674.91
Model School.....	62.44	15.31	9.45	87.20
Dissecting Building....	29.23	2.69	3.78	35.70
Art School.....	58.23	19.00	12.77	90.00
Tunnels.....	360.01	82.84	.....	442.85
Total.....	\$14,696.53	\$8,546.34	\$3,256.43	\$26,499.30

TABLE II

SUMMARY OF SPECIAL REPAIRS

	Labor	Material	Supplies	Total
Pillsbury House.....	\$3,694.82	\$2,688.15	.....	\$ 6,382.97
Campus.....	8,058.12	2,323.24	.....	10,381.36
Hospital.....	3,209.45	1,205.00	.....	4,414.45
Miscellaneous Hospital				
Buildings.....	676.40	453.35	.....	1,129.75
New Heating Plant....	37.32	109.72	.....	147.04
Free Dispensary.....	328.50	156.23	.....	484.73
Total Buildings not chargeable to Re- pair Fund.....	\$16,004.61	\$6,935.69	.....	\$22,940.30

TABLE III
SUMMARY OF INVENTORY OF PROPERTY OF THE UNIVERSITY OF MINNESOTA
As of July 31, 1912

NAME OF DEPARTMENT	TOTAL	SCIENTIFIC APPARATUS	TOOLS, MACHINERY	PICTURES AND BOOKS	FURNITURE	LIVE STOCK	EXPENDABLE SUPPLIES	BUILDINGS	LANDS	MISCELLANEOUS
General University.....	\$304,117	\$756	\$5,939	\$222,387	\$36,824	.....	\$466	.....	.....	\$37,745
College of Science, Literature, and the Arts.....	467,608	180,327	5,646	163,360	50,995	.....	8,070	.....	.....	59,210
College of Engineering.....	207,716	76,187	84,008	27,746	12,606	.....	3,969	.....	.....	3,200
College of Medicine and Surgery and.....	254,465	146,087	15,426	37,818	26,373	\$3	20,184	.....	.....	8,574
School of Chemistry.....	49,278	26,355	839	4,686	1,591	.....	15,807	.....	.....	.....
School of Mines.....	62,481	14,342	26,650	10,062	9,942	.....	1,485	.....	.....	.....
College of Dentistry.....	19,091	6,993	2,127	1,220	3,434	.....	5,317	.....	.....	.....
Law School.....	84,149	155	.....	81,082	2,812	.....	100	.....	.....	.....
College of Pharmacy.....	19,628	8,522	.....	2,780	3,493	.....	4,833	.....	.....	.....
College of Education.....	4,627	596	82	1,452	2,434	.....	63	.....	.....	.....
College of Agriculture.....	370,979	37,028	50,008	82,457	99,194	54,798	30,237	.....	.....	17,257
Total Equipment.....	1,844,139	497,348	190,725	635,050	249,698	54,801	90,531	.....	.....	125,986
LANDS AND BUILDINGS:										
University Campus.....	4,577,220	.....	.....	.....	.....	.....	.....	\$2,577,220	\$2,000,000	.....
University Farm.....	1,156,099	.....	.....	.....	.....	.....	.....	885,142	270,957	.....
Experiment Station.....	507,040	.....	.....	.....	.....	.....	.....	370,090	136,950	.....
Land Grants and Miscellaneous.....	1,681,053	.....	.....	.....	.....	.....	.....	23,125	1,657,928	.....
Total Lands and Buildings..	7,921,412	.....	.....	.....	.....	.....	.....	3,855,577	4,065,835	.....
Grand Total of Property.....	9,765,551	497,348	190,725	635,050	249,698	54,801	90,531	3,855,577	4,065,835	125,986

UNIVERSITY LANDS

In accordance with the resolution of the Board of Regents of February 12, 1912, Mr. Luth Jaeger has for some time been engaged upon an examination of the records of this office and of the office of the State Auditor with a view to ascertaining the exact status of the various real estate holdings of the University. The work has gradually widened in its scope and the results will eventually show by records and maps the history and present condition of all the lands and of other realty which have been and are now owned by the University. A brief summary of the more important features of the examination follows:

Salt Spring lands.—The records in this office have been carefully checked, indexed, and verified. There remains unsold 4,625.64 acres and there is still due from the government 1,149.40 acres. Congressional action will be invoked to make up this shortage should the General Land Office persist in its refusal to render relief. Selections have been prepared and will be submitted to the proper authorities in the near future.

University lands.—These lands being managed by the office of the State Auditor, no records or data of any kind concerning them have ever been available at this office. Steps are, however, in progress to remedy this defect and when the present investigation is closed, complete records and data will be on hand here. There still remains unsold 18,946.07 acres, of which 2,400 acres are mineral lands leased to private parties. A shortage of about 635.1 acres due the University from the government has been disclosed and measures will be taken to make the necessary selections.

Mineral leases.—There are at this writing in force 22 mineral leases covering, as above mentioned, 2,400 acres. The merchantable tonnage of ore contained therein is computed at 5,084,764 tons, and the non-merchantable tonnage at 6,615,355 tons. The former is assessed by the Tax Commission at \$461,889, while the non-merchantable tonnage is of such uncertain value that it has been thought best not to venture an estimate. One hundred and thirty-four leases have been canceled for non-payments. The annual receipts from permits, royalties, and leases now aggregate approximately \$100,000 per annum which is credited to the permanent University fund, the interest only being available for University maintenance. An effort should be made to make the mineral land of the State more productive and to that end legislation should be sought to authorize the State Auditor to make leases under such restrictions as will enforce operations.

The University Campus.—The University Campus is the result of a number of acquisitions beginning in 1854 and continuing down until two years ago when the last enlargement took place. It is the intention to prepare a map showing in colors and chronological order as far as may be, the growth of the Campus.

The area of University property.—The University Campus, the Department of Agriculture Campus and Farm, and the various Experiment Stations (not including Government Land Grants) aggregate 4,456.75

acres. Unsold lots in the Regents' Addition, Minneapolis, and lots in St. Paul received from the Ludden Estate, in all valued at approximately \$50,000, are being negotiated for long leases.

THE UNIVERSITY TRUST FUNDS

Prepared by D. W. Sprague

THE GILFILLAN TRUST FUND

This fund of \$50,000 is the gift of the Hon. John B. Gilfillan, of Minneapolis, to the University of Minnesota, the income from which shall be at the disposal of the Executive Committee of its Board of Regents, either as a gift or a temporary loan to University students who are residents of Minnesota.

The fund is invested in four per cent Minneapolis, St. Paul and Sault Ste. Marie Railway Company's bonds, the income from which is \$2,000 per annum, payable semi-annually. The income is loaned to students on their notes in amounts not exceeding \$200 to any one person in one year, at the rate of five per cent per annum.

CLASSIFICATION OF STUDENTS WHO HAVE RECEIVED AID FROM THIS FUND

The number of men who have received aid from the Gilfillan Fund	178
The number of women who have received aid from the Gilfillan Fund	58
Total.....	236
Number of students who have received gifts.....	2
Number of students who have paid their loans in full.....	89
Number of students whose loans are due, who have paid nothing..	26
Number of students whose loans are due, who have paid something	70
Number of students whose loans are not yet due.....	58
Total.....	245
Less 9 duplicates entered twice.....	9
Total number of students who have received aid from this fund	236

INTEREST RECEIPTS

The Gilfillan Fund of \$50,000 is invested in four per cent bonds payable semi-annually. The annual interest is therefore, \$2,000. The bonds were received in 1902 and have been on interest from 1902 to 1912 inclusive, a period of eleven years; \$2,000 per year for eleven years gives a total interest of \$22,000.

RECEIPTS BY YEARS

	Interest	Collections from Students	Totals
For year ending July 31, 1902.....	\$2,000.00	\$ 25.42	\$2,025.42
For year ending July 31, 1903.....	2,000.00	137.75	2,137.75
For year ending July 31, 1904.....	2,000.00	104.39	2,104.39
For year ending July 31, 1905.....	2,000.00	442.75	2,442.75
For year ending July 31, 1906.....	2,000.00	708.02	2,708.02
For year ending July 31, 1907.....	2,000.00	1,378.46	3,378.46
For year ending July 31, 1908.....	2,000.00	643.46	2,643.46
For year ending July 31, 1909.....	2,000.00	1,098.86	3,098.86
For year ending July 31, 1910.....	2,000.00	2,561.26	4,561.26
For year ending July 31, 1911.....	2,000.00	1,550.53	3,550.53
For year ending July 31, 1912.....	2,000.00	2,630.39	4,630.39
Totals.....	\$22,000.00	\$11,281.29	\$33,281.29

DISBURSEMENTS

	Loans to Students	Expenses of Administration	Totals
For year ending July 31, 1902.....	\$1,030.00	\$19.94	\$1,049.94
For year ending July 31, 1903.....	1,410.00	10.00	1,420.00
For year ending July 31, 1904.....	1,605.00	10.75	1,615.75
For year ending July 31, 1905.....	3,370.00	44.50	3,414.50
For year ending July 31, 1906.....	2,486.00	1.00	2,487.00
For year ending July 31, 1907.....	3,160.00	.....	3,160.00
For year ending July 31, 1908.....	3,183.00	.....	3,183.00
For year ending July 31, 1909.....	2,890.00	.....	2,890.00
For year ending July 31, 1910.....	2,995.00	3.40	2,998.40
For year ending July 31, 1911.....	4,250.00	.....	4,250.00
For year ending July 31, 1912.....	5,052.00	.....	5,052.00
Totals.....	\$31,431.00	\$89.59	\$31,520.59
Total Receipts.....	\$33,281.29		
Total Disbursements.....	31,520.59		

Total receipts less total disbursements
equals balance on hand August 1,
1912..... \$1,760.70

STATEMENT OF EXPENSES IN ADMINISTERING THE FUND IN DETAIL

Rent of deposit vault for bonds, four years.....	\$32.00
One 500-page Journal, \$7.25; three promissory note books at \$1.00, \$3.00.....	10.25
Printing of circular letters, blanks, \$3.50; rubber stamp and pad, \$0.44.....	3.94
Lettering Journal, \$1.50, two typewritten state- ments \$2.00.....	3.50

Express on bonds to New York for registration and return.....	\$37.50	
Exchange on country checks, \$1.15; refund to Ralph Kerns, \$1.25.....	2.40	
Total expenses of administration.....		\$89.59

CLASSIFICATION OF LOANS MADE TO STUDENTS

Total gifts to students.....	\$ 450.00	
Amount of loans which have been paid in full.....	7,152.00	
Loans past due upon which nothing has been paid	2,669.00	
Loans past due upon which something has been paid.....	10,818.00	
Loans not yet due.....	10,342.00	
Total gifts and loans to students paid and unpaid..		\$31,431.00

STATEMENT OF COLLECTIONS FROM STUDENTS

	Capital	Interest
Loans which have been paid in full.....	\$7,152.00	\$ 986.56
Loans due upon which something has been paid...	945.89	1,678.58
Loans not due upon which something has been paid.....	128.00	390.26
Totals.....	\$8,225.89	\$3,055.40
Paid on Principal.....	\$8,225.89	
Paid on Interest.....	3,055.40	
Total Collections.....		\$11,281.29

THE ELLIOT SCHOLARSHIP LOAN FUND

This fund of \$5,000 is the gift of Mrs. Mary H. Elliot, wife of Dr. A. F. Elliot, of Los Angeles, California, but formerly of Minneapolis, to the University of Minnesota, the income from which shall be placed in the hands of its Board of Regents to be used as a scholarship loan fund for assisting young men in the School of Mines. These loans are made to students on their notes to be repaid as soon as they may be able, but without interest. The annual income from the fund is at present \$200 and the amount loaned to students varies from \$25 to \$200. This fund of \$5,000 remained in the hands of Mrs. Elliot from 1901, the year in which the gift was made, until her death, late in 1904, the income of \$250 having been paid regularly to the Board of Regents. On February 3, 1905, the fund of \$5,000 was formally placed in the hands of the Regents by the executor of the Elliot estate and was deposited by them with the Northwestern National Bank of Minneapolis for investment, where it remained on interest until May 31, 1906.

On May 31, 1906, the principal and accumulated interest to date was.....	\$5,329.75	
On May 31, 1906, were purchased five \$1,000 Northern Pacific 4 per cent bonds.....	5,207.74	
	<hr/>	
Leaving a balance unexpended of.....		\$122.01

STATEMENT OF RECEIPTS BY YEARS

	Interest	Collections from students	Total receipts
Interest received from Mrs. Elliot for 1902	\$250.00	.....	\$250.00
Interest received from Mrs. Elliot for 1903	250.00	\$ 50.00	300.00
Interest received from Mrs. Elliot for 1904	250.00	265.00	515.00
Interest received from Mrs. Elliot for 1905	250.00	200.00	450.00
Interest received for quarter ending June 30, 1906.....	{ 50.00	.....	.....
Balance after purchase of bond.....	{ 122.01	.....	172.01
Interest received on bonds for year 1907..	200.00	125.00	325.00
Interest received on bonds for year 1908..	200.00	300.00	500.00
Interest received on bonds for year 1909..	200.00	175.00	375.00
Interest received on bonds for year 1910..	200.00	130.00	330.00
Interest received on bonds for year 1911..	200.00	70.00	270.00
Interest received on bonds for year 1912..	200.00	185.00	385.00
	<hr/>	<hr/>	<hr/>
Total receipts.....	\$2,372.01	\$1,500.00	\$3,872.01

STATEMENT OF RECEIPTS AND DISBURSEMENTS BY YEARS

	Receipts	Disbursements
For year ending July 31, 1902.....	\$250.00	\$250.00
For year ending July 31, 1903.....	300.00	268.00
For year ending July 31, 1904.....	515.00	500.00
For year ending July 31, 1905.....	450.00	350.00
For year ending July 31, 1906.....	172.01	.....
For year ending July 31, 1907.....	325.00	300.00
For year ending July 31, 1908.....	500.00	100.00
For year ending July 31, 1909.....	375.00	75.00
For year ending July 31, 1910.....	330.00	625.00
For year ending July 31, 1911.....	270.00	125.00
For year ending July 31, 1912.....	385.00	400.00
	<hr/>	<hr/>
Totals.....	\$3,872.01	\$2,993.00
Total interest received (see previous table).....	\$2,372.01	
To which add collections (see previous table).....	1,500.00	
	<hr/>	
Gives total receipts.....		\$3,872.01

Total loans made.....	\$2,990.00	
Expenses of administration.....	3.00	
Gives total disbursements.....		\$2,993.00
Receipts less disbursements gives bal- ance on hand.....		\$879.01
Loans outstanding August 1, 1912.....	\$1,490.00	
Loans paid to August 1, 1912.....	\$1,500.00	
Equals total loans made.....		\$2,990.00

THE LUDDEN TRUST FUND

This fund of \$10,000 is the gift of the Hon. John D. Ludden of St. Paul, to the University of Minnesota, the income from which was placed at the disposal of its Board of Regents to aid worthy students of either sex belonging to the School of Agriculture. The fund is invested in Northern Pacific bonds drawing four per cent interest payable quarterly. The annual interest is \$400.00.

Mr. Ludden's purpose and wish was "that the income should be used as a gift to the financial assistance of students" and it was so used from 1902 to 1910. Since 1910 the Regents have pursued a different policy and the income from the fund is now being loaned to its beneficiaries and notes are taken for such loans.

This course was decided upon after a closer examination of the language used by Mr. Ludden, by which the Board of Regents "were empowered to make such rules as they may deem judicious and making final and conclusive such action as the Board or its Executive Committee might take in the matter," for the Board had for some time realized that as a means of encouraging thrift and developing character, a loan was more efficacious than a gift, a fact, by the way, which some of the beneficiaries of the fund prior to this period had themselves recognized, refusing to accept the assistance offered except as a loan.

CLASSIFICATION OF STUDENTS WHO HAVE RECEIVED AID
FROM THIS FUND

Number of students who have received gifts only.....	14
Number of students who have received loans only.....	25
Number of students who have received both gifts and loans.....	9
Total number of beneficiaries.....	48

CLASSIFICATION OF DISBURSEMENTS

	Gifts	Loans
Amount paid to students who have received gifts only.....	\$980.00	
Amount paid to students who have received loans only.....		\$1,660.00
Amount paid to students who have received both gifts and loans.....	420.00	665.00
Totals.....	\$1,400.00	\$2,325.00
Total gifts and loans.....		\$3,725.00

TOTAL RECEIPTS AND DISBURSEMENTS FROM OCTOBER 1, 1902
TO JULY 31, 1912

	Interest received	Collections from students	Disbursements
For year ending July 31, 1903.....	\$200.00	.....	\$ 3.75
For year ending July 31, 1904.....	250.00	.....	100.00
For year ending July 31, 1905.....	400.00	.....	90.00
For year ending July 31, 1906.....	400.00	.....	270.00
For year ending July 31, 1907.....	400.00	.....	150.00
For year ending July 31, 1908.....	400.00	.....	260.00
For year ending July 31, 1909.....	400.00	.....	630.00
For year ending July 31, 1910.....	400.00	\$101.00	1,220.00
For year ending July 31, 1911.....	400.00	52.81	706.00
For year ending July 31, 1912.....	400.00	247.02	300.00
Totals.....	\$3,650.00	\$400.83	\$3,729.75
Total interest receipts.....	\$3,650.00		
Total collections from students....	400.83		
Total receipts.....		\$4,050.83	
Less total disbursements.....		3,729.75	

Equals balance on hand July 31, 1912..... \$321.08

Some of the beneficiaries of the Ludden Fund, refusing to accept the assistance received as a gift, have paid therefor by their promissory notes. At the request of the Regents these notes and some cash collections were added to the Ludden Fund. On March 7, 1910, Mr. J. A. Vye, Treasurer, School of Agriculture, turned over to the Accountant of the University

One check for.....	\$ 89.55
Ten promissory notes amounting to....	540.00

Making a total of..... \$629.55

There has been collected on these notes including the check of \$89.55 from Mr. Vye.....		\$351.22
Balance on hand from Ludden Fund, July 31, 1912.....		321.08
		<hr/>
Balance on hand Ludden Fund August 1, 1912.....		\$672.30
Total amount of outstanding notes August 1, 1912.....		\$2,170.00

THE SHEVLIN FELLOWSHIPS

The Fellowship Fund amounting to \$40,000 is the gift of the Hon. Thomas H. Shevlin, of Minneapolis. Its object is the establishing of four fellowships as follows: one Academic, one in Agriculture, one in Chemistry, and one in Medicine, each being the income of \$10,000 or \$500.

The committee to whom the matter was referred reported that the fellowships be graduate fellowships and that they be under the jurisdiction of the Graduate Department of the University.

The fund is invested in Shevlin-Mathew Lumber Company bonds drawing five per cent interest payable semi-annually; \$1,000 in August and \$1,000 in February of each year. The first income from the fund was received on February 1, 1911 at the commencement of the second semester, when the whole income for the year, \$2,000, was received.

Four fellows were appointed for the year 1910-11, only two of whom were able to accept.

FINANCIAL STATEMENT

Receipts

Total income from the fund for 1910-11.....	\$2,000.00
Total income from the fund for 1911-12.....	2,000.00
	<hr/>
Total receipts.....	\$4,000.00

Disbursements

Two students only accepted appointment for 1911 at \$500.....	\$1,000.00
Five fellows appointed for 1912 at \$500.....	2,500.00
	<hr/>
	\$3,500.00
Balance unexpended August 1, 1912.....	\$500.00

THE GIDEON MEMORIAL PRIZE FUND

The State Horticultural Society contributed \$500 as a memorial of Peter M. Gideon, the pioneer in developing new varieties of fruit in Minnesota and the originator of the Wealthy apple.

The fund is invested in City of Grand Rapids, Minnesota, bonds, drawing five per cent interest, the income from which is to be expended annually by the Department of Horticulture for the three best essays on some subject previously assigned, relating to horticulture, as follows: for the best essay, \$12.00; the second best, \$8.00; the third best, \$5.00. The interest, amounting to \$25, is payable semi-annually in June and in December.

FINANCIAL STATEMENT

Receipts

Annual interest for year ending July 31, 1910.....	\$25.00	
Annual interest for year ending July 31, 1911.....	25.00	
Annual interest for year ending July 31, 1912.....	25.00	
	<hr/>	
Total receipts.....		\$75.00

Disbursements

Sept. 2, 1910 paid for books offered as prizes.....	\$ 9.95	
Jan. 10, 1911 for three prizes in checks.....	25.00	
Dec. 16, 1912 for three prizes in checks.....	25.00	
	<hr/>	
Total disbursements.....		\$59.95
		<hr/>
Balance unexpended August 1, 1912.....		\$15.05

TABLE IV
RECEIPTS AND DISBURSEMENTS, UNIVERSITY TRUST FUNDS

Name and description of fund	Total prin- cipal and additions to beginning of year	Received during year	Total	Income ex- pended during year	Total prin- cipal and additions at end of year	Amount of outstand- ing loans August 1, 1912
<i>The Gilfillan Trust Fund:</i> \$50,000, gift of the Hon. John B. Gilfillan, Minneapolis, Minn. Income to be used as a gift or temporary loan to resident students	\$52,182.31	\$4,630.39	\$56,812.70	\$5,052.00	\$51,760.70	\$23,206.00
<i>The Ludden Trust Fund:</i> \$10,000, gift of the Hon. John D. Ludden, St. Paul, Minn. Income to be used to aid students of the School of Agriculture.	10,145.28	827.02	10,972.30	300.00	10,672.30	2,170.00
<i>The Elliot Scholarship Loan Fund:</i> \$5,000, gift of Mrs. Mary H. Elliot, of Los Angeles, Cal., formerly of Minneapolis, Minn. A scholarship fund for assisting young men in the School of Mines.	5,894.01	385.00	6,279.01	400.00	5,879.01	1,490.00
<i>The Shevlin Fellowships:</i> \$40,000, gift of the Hon. Thomas H. Shevlin, of Minneapolis, Minn. Divided into four graduate fellowships of \$10,000 each, Academic, Agriculture, Chemistry, and Medicine.	41,400.00	2,000.00	43,400.00	2,900.00	40,500.00	Gifts only are made
<i>Albert Howard Scholarship Fund:</i> \$4,000, gift of the Hon. James T. Howard, of St. Johnsbury, Vermont, for establishing a scholarship in memory of his son, Albert Howard.	4,000.00	240.00	4,240.00	240.00	4,000.00	Gifts only are made
<i>Peter Gideon Memorial Prize:</i> \$500, given by the State Horticultural Society. Income to be used for prizes in Horticulture at the School of Agriculture.	502.55	25.00	527.55	25.00	502.53	Gifts only are made

TABLE IV—Continued

Name and description of fund	Total principal and additions to beginning of year	Received during year	Total	Income expended during year	Total principal and additions at end of year	Amount of outstanding loans August 1, 1912
<i>William J. Bryan Prize Fund:</i> \$250, gift of the Hon. William J. Bryan. Income to be used as a prize for encouraging students in Political Science.	\$ 345.81	\$ 8.64	\$ 354.45	\$10.00	\$ 344.45	Gifts only are made
<i>The Rollin E. Cutts Memorial Fund:</i> \$500, gift of Mrs. Martha A. Cutts in memory of her husband. The annual income to be used to purchase a medal for the best thesis based on original work pursued in the College of Medicine and Surgery.	604.41	16.00	620.41	.....	620.41	Gifts only are made
<i>The John D. Ludden Estate:</i> Securities and realty valued at approximately \$10,000, bequeathed by the Hon. John D. Ludden, the income to be loaned to students at the School of Agriculture.	6,000.00	420.00	6,420.00	.....	6,420.00	Gifts only are made
<i>Governor Johnson Memorial Fund:</i> \$19,300, memorial fund raised in honor of the late Governor John A. Johnson, the widow of the deceased having a life interest in the income therefrom. The proceeds of the investment are turned over to her as soon as collected.	.....	.....	.....	.....	.....	.....

RECOMMENDATIONS

The present system of requiring signed pay-rolls is being quite generally discontinued. The entire University pay-roll includes upwards of four hundred individuals requiring approximately eight hundred signatures, which consumes much time and offers little, if any, protection. I should recommend that the law governing be amended, doing away with the signatures and adopting in lieu thereof the certificates of the Heads of Departments and Deans that the pay-rolls are correct and that the services included have been performed.

The reputation for prompt payment of accounts is most essential to the economic purchase of supplies. The legal restrictions make payments slow and unbusinesslike. A summary of the average time for payment is practically as follows:

From date of issue of invoice until received at business office....	3 days
Checking with orders and entering in necessary records.....	3 days
Average time in departments for checking supplies.....	7 days
Accumulating and writing up certificates.....	4 days
Average time in checking up certificates by firms and returning same.....	7 days
Including in vouchers and making abstracts.....	10 days
Abstracts can only be filed on the 5th and 20th. Average time lost.....	8 days
Average time in State Auditor's office in checking abstracts....	12 days
Average time in Treasurer's office drawing checks.....	2 days
Mailing checks and in transit.....	2 days
Total.....	58 days

A special effort has been made to lessen the delay and there is no doubt but that many invoices are paid in less time than above given, but in as many instances more time is taken.

If the law could be amended and a system adopted that would enable purchases being made on a strictly cash basis and advantage of the two per cent cash taken, it would result in a large saving and at the same time greatly facilitate the work in the Business Office, as a continual checking on all invoices is necessary until payment is made.

TABLE V

RECAPITULATION OF ALL FUNDS

Balance August 1, 1911, Maintenance Funds	\$ 109,288.54	
Receipts (not including transfers, etc.)....	1,435,972.93	
Balance August 1, 1911, Building and Equipment Funds.....	1,181,388.64	
Receipts.....	1,102,814.11	
Balance and Sales Agricultural Book Store.	15,263.16	
Dining Halls, etc.....	135,616.64	
<hr/>		
Total.....		\$3,980,344.02
Maintenance Expenditures.....	\$1,304,116.75	
Buildings and Equipment.....	1,001,522.25	
Expended for Books, etc., Agricultural Book Store.....	10,670.15	
Balance Maintenance Funds.....	237,892.70	
Balance Building Funds.....	1,075,562.44	
Balance Agricultural Book Store.....	4,593.01	
Dining Hall Receipts, Treated as Expen- ditures (the Dining Halls and Dormi- tories are not operated with a view to making any profits and charges for use of buildings, heat, light, etc., would more than absorb balances).....	135,616.64	
Adjustments—Deductions debits in excess deductions credits:		
Maintenance Funds.....	3,252.02	
Building and Equipment Funds.....	207,118.06	
<hr/>		
		\$3,980,344.02

TABLE VI

CLASSIFICATION BY COMMODITY

Salaries.....	\$814,851.89	
Wages.....	142,329.88	
Miscellaneous Labor.....	36,070.39	
Fuel.....	72,728.55	
Electricity.....	7,609.03	
Gas.....	5,507.53	
Water.....	3,684.38	
Library.....	30,183.21	
Interest and Assessments.....	17,196.93	
Freight and Express.....	6,315.56	
Traveling Expenses.....	18,058.19	
Postage, Telephone and Telegraph.....	11,200.55	
Publications and Bulletins.....	8,046.37	
Office Equipment, Stationery, and Printing.	21,748.72	
Provisions.....	72,755.10	
Feed.....	18,626.56	
Household and Dormitories.....	16,529.66	
Supplies for Instruction.....	51,443.71	
Seeds and Plants.....	1,660.79	
Live Stock.....	11,871.08	
Scientific Apparatus and Instruments.....	20,952.82	
Furniture and Furnishings.....	9,456.33	
Tools, Implements, and Machinery.....	9,686.03	
Campus Extension and Tunnels.....	41,849.29	
Campus Maintenance.....	3,717.30	
Repairs.....	31,117.34	
New Buildings and Reconstruction.....	845,472.52	
Mechanical Equipment of Buildings.....	89,612.00	
Miscellaneous Supplies.....	20,973.93	
		\$2,441,255.64
Certificates of Indebtedness Redeemed....	\$200,000.00	
Net Maintenance Expense.....	\$1,304,116.75	
Net Buildings and Equipment.....	1,001,522.25	
Dining Halls, etc.....	135,616.64	
		\$2,441,255.64

NOTE: The redemption of the certificates of indebtedness is not included in the classification as the expenditure in no way adds to inventory. The money received from the certificates was expended in the purchase of property for campus extension and accounted for in previous reports.

TABLE VII

MAINTENANCE

For explanation, see page 132

Income

FROM STATE: Bal. August 1, 1911		\$ 109,288.54
<i>Standing Appropriations—</i>		
23-100 Mill Tax.....	\$285,792.71	
Mines Support.....	9,500.00	
Fruit Farm.....	2,000.00	
	<hr/>	\$297,292.71
<i>Annual Appropriations—</i>		
General Support.....	\$325,000.00	
Sundry Special Support....	379,850.00	
	<hr/>	704,850.00
<i>Interest on Investments—</i>		
Swamp Land Interest.....	\$ 10,968.72	
Federal Land Grants.....	57,328.44	
	<hr/>	68,297.16
FROM FEDERAL GOVERNMENT:		
Morrill and Nelson Funds..	\$ 50,000.00	
Adams Fund.....	15,000.00	
Hatch Fund.....	10,000.00	
	<hr/>	75,000.00
STUDENTS' FEES, SALES, etc.:		
Tuition and Incidental Fees (net).....	\$173,878.48	
Sales from Farm Products .	69,776.74	
Rents from Campus Houses.	14,622.61	
Miscellaneous Income		
Funds Restored, also trans. 38.....	32,255.23	
	<hr/>	290,533.06
Total Income.....		<hr/> 1,435,972.93
Total Available.....		<hr/> \$1,545,261.47

TABLE VII

MAINTENANCE

For explanation, see page 132

Expenses

General University (Administration, business management, care of buildings, repairs, heat, light)	\$255,828.21	
Science, Literature, and the Arts.....	249,972.38	
Engineering.....	71,527.26	
Agriculture (including Sub-Stations).....	433,430.22	
Law.....	32,212.97	
Medicine and Surgery { College \$93,995.92		
Hospital 66,089.07	165,084.99	
Dentistry.....	39,281.29	
Pharmacy.....	11,801.11	
Mines.....	34,510.81	
Chemistry.....	40,735.50	
Education.....	17,781.46	
Graduate School.....	2,720.53	
<hr/>		
Total Maintenance.....		\$1,354,886.73
Reconciling with "Debits" as shown in summary above includes July bills abstracted but not paid until after August 1st.....	\$22,025.29	
Purchase of equipment apparatus from special equipment funds, replacement, etc., and properly chargeable to departments.....	28,744.69	
<hr/>		
		50,769.98
<hr/>		
Maintenance per summary.....		\$1,304,116.75
Difference between adjustment of credits and debits in summary.....		3,252.02
<i>Analysis of Balance:</i>		
Bills payable (approximated).....	\$23,387.00	
Government funds received July 1st, balance belonging to succeeding year.....	47,300.77	
Outstanding orders and contracts.....	61,728.90	
Advance from 23-100 mill tax.....	100,000.00	
Unappropriated balance.....	5,476.03	
<hr/>		
		237,892.70
<hr/>		
Ledger balances per summary.....		\$1,545,261.47

MAINTENANCE

Explaining Table VII, pages 130 and 131

"What is the cost of maintenance per annum?" is a question frequently asked and one as difficult to answer as is the question of the cost of operation of a railroad or the "overhead" charges in manufacturing, for with nearly every purchase of furniture, equipment, or apparatus, a debatable question as to "replacement" or "addition to inventory" is furnished. In the classification of vouchers covering supplies received during the fiscal year, each invoice has been considered and the division made according to our best judgment. An arbitrary division of the funds has been made for summarizing expenditures (Tables XII and XVI) which is a close check on the classification. On account of lack of uniformity in the taking of inventories in the past and the adoption of a new method and basis for the inventory of August 1, 1912, no deductions can be made for comparison with the table of maintenance cost. The "difference between the adjustments of credits and debits in the summary," in reconciling Table of Maintenance Cost, is included to adjust the figures to correspond with the summary of Ledger Balances, July 31, 1912. Reference to Tables XIV and XV will afford further explanation.

Two items in "Analysis of Balance" need further explanation: (a) Outstanding orders and contracts. The policy of postponing the purchase of much-needed, but not absolutely necessary equipment and apparatus until the ordinary supplies had been procured and the status of budget funds found to warrant such purchase has resulted in placing many orders near the close of the year; also many orders from abroad and for special books and apparatus given during the year remain unfilled. (b) "Advance from 23-100 mill tax." The first advance was made during the fiscal year closing July 31, 1911, was deducted from the appropriation available August 1, 1911, and a new advance made near the close of the year. Unless the University maintains a sufficient balance to return the advances from the early receipts from the June settlement, loans for meeting a portion of May and all of June expenses will be necessary as in past years.

TABLE VIII

DISTRIBUTION OF NET FEES—UNIVERSITY ONLY

College of Science, Literature, and the Arts...	\$43,762.40
College of Engineering.....	15,959.90
College of Medicine and Surgery.....	22,338.00
School of Chemistry.....	3,638.25
School of Mines.....	4,676.75
College of Dentistry.....	35,053.17
Law School.....	17,207.84
College of Pharmacy.....	4,306.30
College of Education.....	1,836.50
Graduate School.....	1,080.85
General Deposits.....	6,569.54
Extension Division.....	300.00
Summer Session.....	7,017.40
	<hr/>
	\$163,746.90

The above includes fees credited to University Support Fund only. Collections of Economic Extension fees credited to special funds, amounting to \$2,626.10, were treated as miscellaneous receipts. See item 29, Table XX.

TABLE IX

DEPARTMENT EXPENDITURES

	Supplies	Salaries	Wages	Total
University General Administration.....	\$ 22,380.21	\$38,142.80	\$ 2,909.15	\$ 63,432.16
University Library.....	11,805.69	15,700.00	781.45	28,287.14
University Summer School.....	513.38	7,425.00	.....	7,938.38
University Buildings and Grounds.....	109,039.83	3,000.00	44,130.70	156,170.53
General Academic.....	620.53	5,565.00	.....	6,185.53
Department of Mathematics.....	134.74	11,325.00	.....	11,459.74
Department of Rhetoric.....	524.67	21,409.99	.....	21,934.66
Department of Art.....	142.51	2,500.00	.....	2,642.51
Department of Astronomy.....	58.40	3,225.00	.....	3,283.40
Department of Animal Biology.....	2,483.41	13,600.00	720.00	16,803.41
Department of Botany.....	4,018.63	13,755.50	.....	17,774.13
Department of English.....	561.76	11,825.00	.....	12,386.76
Department of Economics and Political Science.....	2,403.72	23,510.00	.....	25,913.72
Department of Semitics.....	.....	600.00	.....	600.00
Department of Geology.....	4,451.35	13,930.03	.....	18,381.38
Department of German.....	341.29	16,450.00	.....	16,791.29
Department of Greek.....	35.86	3,850.00	.....	3,885.86
Department of History.....	755.90	13,100.00	.....	13,855.90
Department of Latin.....	270.29	7,200.00	.....	7,470.29
Department of Music.....	267.50	2,500.00	.....	2,767.50
Department of Military Science.....	1,958.40	3,027.55	.....	4,985.95
Department of Comparative Philology.....	129.97	3,025.00	.....	3,154.97
Department of Philosophy.....	507.50	10,725.00	.....	11,232.50
Department of Physics.....	2,504.83	11,950.00	960.00	15,414.83

TABLE IX—Continued

	Supplies	Salaries	Wages	Total
	\$	\$		\$
Department of Physical Culture (Men).....	214.96	4,445.00	.....	4,659.96
Department of Physical Culture (Women).....	123.55	3,650.00	.....	3,773.55
Department of Romance Languages.....	120.22	12,855.00	.....	12,975.22
Department of Scandinavian Languages.....	329.23	4,400.00	.....	4,729.23
Department of Sociology and Anthropology.....	22.09	6,888.00	.....	6,910.09
Department of General Engineering.....	944.15	8,763.00	.....	9,707.15
Department of Civil Engineering.....	1,080.92	11,750.00	.....	12,830.92
Department of Mechanical Engineering.....	1,794.64	11,900.00	\$ 950.00	14,644.64
Department of Electrical Engineering.....	2,274.64	7,075.00	.....	9,349.64
Department of Drawing.....	73.25	5,325.00	.....	5,398.25
Department of Experimental Engineering.....	1,490.37	5,011.83	.....	6,502.20
Department of Mathematics.....	94.46	13,000.00	.....	13,094.46
Department of Graduate School.....	2,220.53	500.00	.....	2,720.53
General Medicine and Surgery.....	1,196.93	8,040.00	.....	9,236.93
Department of Anatomy.....	3,566.74	19,100.00	529.97	23,196.71
Department of Physiology and Pharmacology.....	2,219.76	16,780.00	1,940.00	20,939.76
Department of Pathology and Bacteriology.....	4,079.15	14,347.95	1,114.84	19,541.94
Department of Medicine.....	512.21	10,700.00	434.70	11,646.91
Department of Surgery.....	140.54	8,900.00	1,080.00	10,120.54
Department of Obstetrics.....	113.13	4,200.00	.....	4,313.13
Elliot Hospital.....	35,798.42	18,180.00	12,110.65	66,089.07
School of Chemistry.....	9,902.18	29,103.32	1,730.00	40,735.50
School of Mines.....	7,540.81	24,943.34	2,026.66	34,510.81
*College of Dentistry.....	1,601.29	36,790.00	890.00	39,281.29

*The above represents the difference between the receipts from Dental Infirmary and Supplies.

TABLE IX—Continued

	Supplies	Salaries	Wages	Total
Law School.....	\$ 7,490.70	\$24,140.79	\$ 581.48	\$32,212.97
College of Pharmacy.....	2,846.78	8,954.33	.....	11,801.11
College of Education.....	2,266.44	15,515.02	.....	17,781.46
Department of Agriculture—				
General Administration.....	6,683.13	14,322.50	.....	30,427.06
General School.....	1,620.24	10,687.19	.....	12,307.43
Library and Publications.....	5,355.11	3,420.42	914.00	9,689.53
Buildings and Grounds.....	19,597.27	960.00	5,394.90	16,530.74
Teachers' Summer School.....	523.50	1,483.00	.....	2,006.50
Miscellaneous.....	3,941.72	.....	.....	3,941.72
Farm Management.....	5,385.25	21,774.93	8,265.34	35,425.52
Chemistry and Soils.....	4,439.36	13,714.43	1,955.50	20,109.29
Extension.....	11,643.94	18,618.64	2,142.50	32,405.08
Engineering.....	11,028.11	19,223.33	9,477.60	39,729.04
Botany and Plant Pathology.....	1,269.40	7,161.49	1,035.43	9,466.32
Dairy and Animal Husbandry.....	28,724.42	28,597.69	3,540.65	60,862.76
English.....	220.73	4,100.00	.....	4,320.73
Entomology.....	1,165.16	6,799.83	60.00	8,024.99
Forestry.....	4,390.68	6,946.83	3,765.00	15,102.51
Home Economics.....	1,628.90	12,895.40	.....	14,524.30
Horticulture.....	1,820.79	11,194.62	6,455.34	19,470.75
Veterinary Science.....	5,097.02	8,888.60	1,548.60	15,534.22
Research in Economics.....	320.01	300.00	585.00	1,205.01
Crookston.....	23,246.03	13,086.41	3,926.27	40,258.71

TABLE IX—Continued

	Supplies	Salaries	Wages	Total
Grand Rapids.....	\$ 6,785.29	\$ 3,800.00	\$ 3,911.76	\$14,497.05
Morris.....	12,173.88	11,358.13	4,058.95	27,590.96
Total.....	\$413,028.40	\$811,931.89	\$129,926.44	\$1,354,886.73
Reconciling with debits as shown in summary above includes				
July bills abstracted but not paid until after August 1st...		22,025.29		
Purchase of Equipment and Apparatus from Special Equipment				
Funds, Replacement, etc., properly chargeable to Departments.		28,744.69		
				50,769.98
				<u>\$1,304,116.75</u>

TABLE X

RECONCILING BALANCE SUPPORT FUND WITH STATE
AUDITOR'S BOOKS

State Auditor's Balance, July 31, 1912.....	\$ 35,908.45	
Advance 23-100 Mill Tax charged by State Auditor prior to August 1, 1912.....	100,000.00	
July Government Fund and Dining Hall Expenditures charged by State Auditor prior to August 1, 1912:		
Morrill Fund.....	\$2,083.31	
Nelson Fund.....	1,937.42	
Adams Fund.....	1,178.50	
Hatch Fund.....	716.64	
Farm Dining Hall.....	1,526.07	7,441.94
		<hr/>
		\$143,350.39
Government and Dining Hall Funds included in State Auditor's balance, but transferred on University books:		
Morrill Fund.....	\$25,000.00	
Nelson Fund.....	25,000.00	
Adams Fund.....	2,500.00	
Sanford Hall.....	1,000.00	
Shevlin Hall.....	1,000.00	
Farm Dining Hall.....	2,526.07	\$57,026.07
		<hr/>
Miscellaneous Trust Fund Interest credited on University books to Support Fund by error.....		100.00
Fees paid for collections by State Auditor, reported in letter of August 5, 1912.....	\$198.94	
And correctly on State Auditor's books.....	178.94	
		<hr/>
		20.00
Overtransfer on University books from Support Fund to Fuel Fund.....		4.87
		<hr/>
		57,150.94
		<hr/>
		\$86,199.45

TABLE XI

RECONCILING SUPPORT FUND BALANCE, AUGUST 1, 1911, WITH
STATE AUDITOR'S BALANCE

State Auditor's Balance, August 1, 1911.....	\$83,429.23	
University Ledger Balance, August 1, 1911..	61,051.18	
	<hr/>	\$22,378.05
Warrants issued by State Auditor August 1, 1911.....	\$22,616.13	
Charged by State Auditor, account fees for collections of interest, not charged on University books until after August 1, 1911.....	\$203.24	
Refund Land Interest to M. Schroeder, charged on State Auditor's books, but not on University books until after August 1, 1911.....	34.84	238.08
	<hr/>	<hr/>
		\$22,378.05

TABLE XII
SUMMARY OF MAINTENANCE FUNDS

	Balance Aug. 1, 1911	Credits to Support Fund	Total	Debits to Support Fund	Balance July 31, 1912
1. Support Fund.....	\$61,051.18	\$1,234,669.86	\$1,295,721.04	\$1,159,220.82	\$136,500.22
2. Special University Support.....	20,927.09	238,052.98	258,980.07	210,600.01	48,380.06
3. Special University Repairs.....	17,100.23	52,592.66	69,692.89	54,858.70	14,834.19
4. Special Agriculture Support.....	9,652.67	116,887.23	126,539.90	95,554.16	30,985.74
5. Special Agriculture Repairs.....	105.20	20,257.59	20,362.79	16,540.68	3,822.11
6. Sub-Station Support.....	452.17	102,280.51	102,732.68	99,362.30	3,370.38
Total.....	\$109,288.54	\$1,764,740.83	\$1,874,029.37	\$1,636,136.67	\$237,892.70
Transfers and entries other than receipts credited to accounts, Table XV..	.....	\$328,767.90	.....	.....	.....
Transfers and entries other than expense charged to accounts, Table XIV..	.....	.....	.....	\$332,019.92	.....
Net receipts.....	.....	\$1,435,972.93	.....	.....	.....
Net expenditure for maintenance.....	.....	.....	.....	\$1,304,116.75	.....

TABLE XIII

CREDITS TO MAINTENANCE FUNDS

	Item	Amount
STANDING APPROPRIATIONS—		
23-100 Mill Tax.....	2	\$285,792.71
School of Mines Support.....	40	9,500.00
Fruit Farm Investigation.....	84	2,000.00
ANNUAL APPROPRIATIONS—		
General Support.....	1	325,000.00
Sundry Special Support.....	18-20-23-28-31-34- 35-37-40-41-43-45- 49-51-52-55-57-58- 60-62-64-67-71-72- 73-74-79-81-83-87- 88-93-100-101-106- 115-116-123-125-131	379,850.00
ADVANCE ON MILL TAX.....	273	100,000.00
INTEREST ON INVESTMENTS—		
Swamp Land Interest.....	271	10,968.72
Federal Land Grant.....	272	57,328.44
FEDERAL APPROPRIATIONS.....	284	75,000.00
FEES AND TUITION.....	118-128-275-276	204,943.44
RENTS CAMPUS HOUSES.....	98	14,622.61
SALE OF FARM PRODUCTS.....	277-278-44-46-53- 56-59-63-65-69-76- 78-80-82-85-103-119- 124-129	69,776.74
UNIVERSITY MISCELLANEOUS		
RECEIPTS.....	279-285-19-21-24-29- 36-38-39-89	29,883.21
CANCELED BALANCES RESTORED		
BY STATE AUDITOR.....	42-47-66-68-77-94- 104-107-109-113	2,372.02
TRANSFERS.....	30-32-33-90-91-99- 102-120-121	48,825.58
DINING HALL, ETC.....	117-127-280-281-282- 283	135,616.64
CONTINGENT FUNDS RE-		
CREDITED.....	50-274	13,000.00
REFUNDS.....	25-287	260.72
		<hr/> \$1,764,740.83

TABLE XIV

TRANSFERS AND ENTRIES OTHER THAN UNIVERSITY MAINTENANCE
EXPENDITURES CHARGED TO ACCOUNTS

	Item	Amount
Transferred from General Support to Fuel	4	\$42,171.27
Transferred from Elliot Hospital to Fuel.	26	3,049.06
Refund Salary.....	25	93.06
Advance on 23-100 mill tax during year Aug. 1, 1910 to July 31, 1911, charged to University Support and later a new advance made to replace.....	5	100,000.00
Refund of Fees and Breakage Deposit, University.....	6	20,633.96
Refund of Fees and Breakage Deposit, Agriculture.....	7	10,431.00
Crookston Support paid by University Support.....	8	751.01
Transferred from Support to University Extension.....	9	300.00
Overdraft year ending July 31, 1911, Agricultural Extension.....	61	1,976.41
Fire Loss Wabasha Street House.....	90	440.60
Fire Loss Boiler House.....	91	1,090.49
Transfer from Campus Rents to Repairs.	92	12.40
Transfer from Bookstore (Agriculture) to Repairs.....	102	664.40
Dining Hall Receipts, Crookston.....	117	14,330.64
Correctional Entry.....	120	346.35
Overdraft Crookston Support July 31, 1911.....	122	309.46
Dining Hall Receipts, Morris.....	127	5,618.23
Overdraft Morris Support, July 31, 1911.	130	556.28
Contingent Funds charged Dairy Ex- tension by error.....	50	200.00
Contingent Funds charged to Support by error.....	3	12,800.00
Dental Infirmary.....	3	15,806.10
Sanford Hall Receipts.....	3	27,637.12
Shevlin Hall Receipts.....	3	11,695.06
Dining Hall Receipts, Agriculture.....	3	60,529.49
		<hr/>
		\$331,442.39
Refunds (Salary Checks Canceled)	3	167.66
Canceled by State Auditor	48-54-70-105-	
	108-110-112-114	409.87
		<hr/>
		\$332,019.92

TABLE XV

TRANSFERS AND ENTRIES OTHER THAN UNIVERSITY MAINTENANCE
RECEIPTS CREDITED TO ACCOUNTS

	Item	Amount
Transferred to Fuel Fund from General Support.....	32	\$42,171.27
Transferred to Fuel Fund from Elliot Hospital Support.....	33	3,049.06
Refund Salary.....	25	93.06
Advance on 23-100 mill tax during year Aug. 1, 1910 to July 31, 1911, charged to University Support and later a new advance made to replace.....	273	100,000.00
Refund of Fees and Breakage Deposit, University.....	6	20,633.96
Refund of Fees and Breakage Deposit, Agriculture.....	7	10,431.00
Transferred from University Support to Crookston Support.....	121	751.01
Transferred from Support to University Extension.....	30	300.00
Fire Loss Wabasha Street House.....	90	440.60
Fire Loss Boiler House.....	91	1,090.49
Transfer from Campus Rents to Repairs.....	99	12.40
Transfer from Bookstore (Agriculture) to Repairs.....	102	664.40
Dining Hall Receipts, Crookston.....	117	14,330.64
Correctional Entry.....	120	346.35
Dining Hall Receipts, Morris.....	127	5,618.23
Contingent Funds Charged to Dairy Extension by error.....	50	200.00
Contingent Funds Charged to Support by error.....	275	12,800.00
Dental Infirmary.....	281	15,806.10
Sanford Hall Receipts.....	282	27,637.12
Shevlin Hall Receipts.....	283	11,695.06
Dining Hall Receipts, Agriculture.....	284	60,529.49
Refunds (Salary Checks Canceled)	287	167.66
Total.....		<hr/> \$328,767.90

TABLE XVI

SUMMARY OF BUILDING AND EQUIPMENT FUNDS

	Balance Aug. 1, 1911	Credits to funds	Total	Debits to funds	Balance July 31, 1912
7. University Buildings.....	\$818,329.45	\$629,232.88	\$1,447,562.33	\$879,356.78	\$568,205.55
8. University Equipment.....	228,796.98	22,801.67	251,598.65	63,015.68	188,582.97
9. Agricultural Buildings.....	124,897.21	274,633.44	399,530.65	112,109.03	287,421.62
10. Agricultural Equipment.....	7,862.45	9,763.52	17,625.97	12,415.15	5,210.82
11. Crookston Buildings and Improve- ments.....	114.28	40,985.79	41,100.07	40,676.53	423.54
12. Grand Rapids Buildings and Im- provements.....	1,002.21	8,563.57	9,565.78	6,220.41	3,345.37
13. Morris Buildings and Improve- ments.....	386.06	100,322.00	100,708.06	83,522.34	17,185.72
14. Morris Equipment.....	.....	16,511.24	16,511.24	11,324.39	5,186.85
Items other than expense charged to accounts, Table XVIII.....	\$1,181,388.64	\$1,102,814.11	\$2,284,202.75	\$1,208,640.31	\$1,075,562.44
	.....	.....	.....	207,118.06	.....
Agricultural Book-Store.....	.....	.....	.....	\$1,001,522.25	.....
	.....	\$15,263.16	\$15,263.16	\$10,670.15	\$4,593.01

BUILDING FUND BALANCES

The large balance remaining in the building funds can be best explained by items:

(a) Heating Plant, balance of \$127,212.—Plans were completed in the early summer of 1911 and the contract awarded for the excavation and also the foundation, which was not completed until the spring of 1912. As the result of advertising for bids on the building, only one proposal was received. In response to the second advertisement there were a number of bids, but all were in excess of the money available, which necessitated reducing the size of the building and further delayed the awarding of the building contract. Difficulty was also experienced in awarding the contract for the tunnel piping within the appropriation, necessitating the revision of plans and readvertising. There remains now unappropriated approximately only \$2,400.

(b) Chemistry Building, balance of \$169,750.—The total amount appropriated is \$405,000,—\$230,000 available August 1, 1912. Tentative plans, on which the estimates were based, were made three years ago. With the completion of the plans and estimates it was found that the cost would approximate \$500,000. After the destruction of Millard Hall, a plan for combining the \$75,000 appropriated for fire-proofing, and the insurance with the Chemistry Building appropriation and constructing the Chemistry Building as originally planned was considered, but it developed that there was no law authorizing such a transfer. The plans have now been altered and the contract will soon be awarded.

(c) Alterations to Medical Science Building, balance of \$24,992.—The delay in completing the Medical Buildings prevented vacation of this building to allow operations.

(d) Fire-proofing Millard Hall, balance of \$121,898.—The building burned before plans were completed. The appropriation was \$75,000, which has been supplemented by the insurance. Contracts for the reconstruction have been awarded.

(e) Anatomy Building, balance of \$46,969.—This building is nearly completed. The balance represents estimates due and the 15 per cent withheld until the final acceptance is made. (Erection in charge of the State Board of Control.)

(f) General Medical Building, balance of \$61,583.—Note with reference to Anatomy Building applies.

(g) Mechanical Building and Equipment, Department of Agriculture, balance of \$221,330.—The erection is in charge of the State Board of Control. There was delay in making plans and awarding contracts.

(h) Medical Building Equipment, balance of \$58,384.—Purchase of equipment could not be made until New Millard Hall was ready for occupancy.

(i) Anatomy Building Equipment, balance of \$66,338.—Purchase could not be made until building was ready.

(j) Elliot Hospital Equipment, balance of \$14,368.—Payment for

X-ray equipment withheld on account of defective operation, and other purchases delayed for various reasons.

(k) Dentistry Equipment, balance of \$19,711.—With the destruction of Old Millard Hall by fire, there was no place for equipment until the Medical Chemistry Building could be vacated and remodeled.

(l) Engineering Building Equipment, balance of \$18,639.—Purchase of the equipment has been delayed to reserve funds for payment of mechanical equipment of the building in the event there was not sufficient funds in the Campus Extension Tax Collections.

(m) Girls' Dormitory and Equipment, Morris, balance of \$13,325.—Erection in charge of State Board of Control. Building has recently been completed and equipment has been ordered.

TABLE XVII
CREDITS TO BUILDINGS AND EQUIPMENT FUNDS

	Item	Amount
Appropriations.....	132-136-137-138-156- 157-160-161-162-163- 168-164-165-166-167- 183-188-191-194-195- 198-199-200-202-204- 205-206-209-221-223- 225-227-229-231-232- 233-235-239-242-243- 244-246-247-248-250- 251-252-253-254-255- 256-257-258-259-260- 261-262-263	\$782,190.00
Campus Extension Levy.....	150	187,720.09
Sale of Certificates.....	151	64,945.83
Fire Loss.....	142-178	44,398.30
Miscellaneous Receipts.....	134-141-146-158-186- 190-207-245-265	3,375.04
Balances Restored by State Auditor.....	171-172-174-176-187- 189-192-196-211-213- 215-217-219-240	11,092.04
Contingent Fund Recredited.....	133	2,000.00
Transfers.....	145-148	7,092.81
		<hr/> \$1,102,814.11

TABLE XVIII
ITEMS CHARGED TO BUILDING AND EQUIPMENT FUNDS NOT
PROPERLY EXPENSE

	Item	Amount
Redemption of Campus Extension Certificates.....	152	\$200,000.00
Transfer from Elliot Hospital Equipment to Elliot Hospital Building Fund.....	145-182	1,462.50
Fire Loss.....	139-140	5,149.51
Balances Canceled by State Auditor.....	175-177-193-197-201- 203-208-210-212-21 - 216-220-222-224-22 - 228-230-234-237-241- 249	06.05
		<hr/> \$208.06 1'71

TABLE OF FUNDS SHOWING CREDITS, DEBITS, AND BALANCES

NOTE.—Items in Received Column are appropriations unless otherwise designated.

TABLE XIX
SUPPORT FUND

	Balance Aug. 1, 1911 \$61,051.18	Received	Total	Expended	Balance July 31, 1912
1. General Support.....		\$325,000.00			
2. 23-100 Mill Tax.....		285,792.71			
3. Miscellaneous Receipts per table XXXIV		623,877.15	\$1,295,721.04	\$984,216.94	
4. Transferred to Fuel Fund.....				42,171.27	
5. Transferred by State Auditor Advanced Tax Money.....				100,000.00	
6. Refund Fees and Breakage Deposit, University.....				20,633.96	
7. Refund Fees and Breakage Deposit, Agriculture.....				10,431.00	
8. Crookston Support Bills Paid.....				751.01	
9. Transferred to University Extension, Farm.....				300.00	\$86,199.45
Balances Transferred on New Ledger:					
10. *Hatch Fund Overdraft.....				716.64	
11. Morrill Fund.....					22,916.69
12. Nelson Fund.....					23,062.58
13. Adams Fund.....					1,321.50
14. Sanford Hall.....					1,000.00
15. Shevlin Hall.....					1,000.00
16. Dining Hall, Agriculture.....					1,000.00
	<u>\$61,051.18</u>	<u>\$1,234,669.86</u>	<u>\$1,295,721.04</u>	<u>\$1,159,220.82</u>	<u>\$136,500.22</u>

Government Remittance due July 1st, not received until after August 1st.

TABLE XX

UNIVERSITY SPECIAL SUPPORT FUNDS

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
17. Periodicals.....	\$ 44.67	.....	\$ 44.67	\$ 44.67	.....
18. University Library.....	1,466.30	\$10,000.00	.....	.....	.....
19. Miscellaneous Receipts.....	.....	138.21	11,604.51	9,322.83	\$ 2,281.68
20. Law Library.....	5,000.00	5,000.00	.....	.....	.....
21. Miscellaneous Receipts.....	.....	176.00	10,176.00	9,281.24	894.76
22. Cataloguing Library.....	455.00	.....	455.00	455.00	.....
23. Elliot Hospital Support.....	11,948.17	79,600.00	.....	.....	.....
24. Miscellaneous Receipts.....	.....	1,392.60	.....	.....	.....
25. Refund Salary.....	.....	93.06	93,033.83	73,247.11	16,737.66
26. Transferred to Fuel Fund.....	.....	.....	.....	3,049.06	.....
27. College of Education.....	1,034.56	.....	.....	.....	.....
28. Economics Extension.....	978.39	10,000.00	.....	.....	.....
29. Miscellaneous Receipts.....	.....	2,626.10	.....	.....	.....
30. Transferred from Support Fees Incorporatedly Credited.....	.....	300.00	14,939.05	12,174.83	2,764.22
31. Fuel Fund.....	.....	20,000.00	.....	.....	.....
32. Transferred from Support.....	.....	42,171.27	.....	.....	.....
33. Transferred from Elliot Hospital Support.....	.....	3,049.06	65,220.33	65,220.33	.....
34. Scientific Books and Instruments.....	.....	25,000.00	25,000.00	15,443.90	9,556.10
35. Research and Publication.....	.....	10,000.00	.....	.....	.....
36. Miscellaneous Receipts.....	.....	239.31	10,239.31	3,789.66	6,449.65

TABLE XX—Continued

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
37. Geological Survey.....		\$ 6,500.00			
38. Received from Geological and Natural History Survey.....		1,937.47			
39. Miscellaneous Receipts.....		329.90	\$ 8,767.37	\$ 2,516.88	\$6,250.49
40. Mines Support and Experiment Station.		19,500.00	19,500.00	16,054.50	3,445.50
	\$20,927.09	\$238,052.98	\$258,980.07	\$210,600.01	\$48,380.06

TABLE XXI

UNIVERSITY FARM SPECIAL SUPPORT FUNDS

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
41. Horticultural Crops.....	\$472.63	\$2,000.00			
42. Balance Restored by State Auditor		55.59	\$ 2,528.22	\$1,727.84	\$ 800.38
43. Field Crops.....	371.81	5,000.00			
44. Miscellaneous Receipts.....		4,125.97	9,497.78	5,775.57	3,722.21
45. Hog Cholera.....	837.04	4,000.00			
46. Miscellaneous Receipts.....		6,153.96			
47. Balance Grain Laboratory Restored by State Auditor.....		63.99	11,054.99	6,591.98	
48. Old Balance Canceled by State Auditor				17.46	4,445.55

TABLE XXI—Continued

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
49. Dairy Extension.....	\$ 12.02	\$ 3,000.00	.....	.....	.....
50. Contingent Fund Credited.....	.....	200.00	\$ 3,212.02	\$ 2,561.46	\$ 650.56
51. Injurious Insects.....	197.49	1,500.00	1,697.49	1,310.11	387.38
52. Forestry School and Experiment.....	1,936.49	11,500.00	.....	.....	.....
53. Miscellaneous Receipts.....	.....	51.55	13,488.04	10,627.97	.....
54. Canceled by State Auditor.....	.....	.....	.....	33.47	2,826.60
55. Plant Disease.....	99.64	1,500.00	.....	.....	.....
56. Miscellaneous Receipts.....	.....	319.80	1,919.44	1,415.59	503.85
57. Tobacco Culture.....	1,095.24	2,000.00	3,095.24	2,152.71	942.53
58. Eradication of Weeds.....	424.03	1,000.00	1,688.56	965.50	723.06
59. Miscellaneous Receipts.....	.....	264.53	.....	.....	.....
60. Agricultural Extension.....	.....	40,000.00	40,000.00	35,075.14	2,948.45
61. Overdraft, previous year.....	.....	.....	.....	1,976.41	.....
62. Poultry Department.....	23.67	5,000.00	.....	.....	.....
63. Miscellaneous Receipts.....	.....	236.46	5,260.13	1,656.29	3,603.84
64. Soil Inspection and Investigation.....	633.14	2,000.00	.....	.....	.....
65. Miscellaneous Receipts.....	.....	8.00	.....	.....	.....
66. Balance Restored.....	.....	106.75	2,747.89	2,681.87	66.02
67. Alcohol Plant.....	.....	2,000.00	.....	.....	.....
68. Old Balance Restored.....	.....	117.56	.....	.....	.....
69. Miscellaneous Receipts.....	.....	743.26	2,860.82	2,817.06	.....
70. Canceled by State Auditor.....	.....	.....	.....	43.76	.....
71. Farm Library.....	33.16	6,000.00	6,033.16	4,841.50	1,191.66

TABLE XXI—Continued

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
72. Drainage Problem.....	\$ 963.10	\$2,000.00	\$2,963.10	\$1,785.43	\$1,177.67
73. Agricultural Engineering Investigation. ....	.....	500.00	500.00	283.13	216.87
74. Field Work and Farm Management....	.....	1,500.00	1,500.00	1,369.95	130.05
75. Seeds and Experiment.....	710.78	.....	.....	.....	.....
76. Miscellaneous Receipts.....	.....	4.00	714.78	200.48	514.30
77. Military Instruction Balance Restored. ....	.....	529.94	551.10	453.55	97.55
78. Miscellaneous Receipts.....	.....	21.16	.....	.....	.....
79. Board of Regents Timber Preservation.	1,300.18	1,500.00	.....	.....	.....
80. Miscellaneous Receipts.....	.....	60.00	2,860.18	956.79	1,903.39
81. Animal Nutrition.....	.....	2,500.00	.....	.....	.....
82. Miscellaneous Receipts.....	.....	2,074.80	4,574.80	2,167.11	2,407.69
83. Fruit Farm Investigation .....	.....	2,500.00	.....	.....	.....
84. Fruit Farm Maintenance.....	.....	2,000.00	.....	.....	.....
85. Miscellaneous Receipts.....	.....	749.91	5,249.91	4,330.78	919.13
86. Forest Lands.....	542.25	.....	542.25	.....	542.25
87. Premiums.....	.....	2,000.00	2,000.00	1,735.25	264.75
	<u>\$9,652.67</u>	<u>\$116,887.23</u>	<u>\$126,539.90</u>	<u>\$95,554.16</u>	<u>\$30,985.74</u>

TABLE XXII

UNIVERSITY REPAIR FUNDS					
	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
88. University Repairs.....	\$7,784.44	\$25,000.00	.....	.....	.....
89. Miscellaneous Receipts.....	.....	6,466.19	.....	.....	.....
90. Transferred from Wabasha Fire Loss	.....	440.60	.....	.....	.....
91. Transferred from Boiler House Fire Loss.....	.....	1,090.49	\$40,781.72	\$36,426.62	.....
92. Transferred to Campus Building Rents .....	.....	.....	.....	12.40	\$4,342.70
93. Folwell Hall Attic.....	.....	4,000.00	4,000.00	4,000.00	.....
94. Water Mains Balance Restored.....	.....	960.37	960.37	43.50	916.87
95. Medical Building Insurance.....	285.49	.....	285.49	67.06	218.43
96. Rents University Campus Buildings..	8,081.03	.....	.....	.....	.....
97. Transferred from University Campus Repairs.....	949.27	.....	.....	.....	.....
98. Miscellaneous Receipts.....	.....	14,622.61	.....	.....	.....
99. Transferred from University Repairs	.....	12.40	23,665.31	14,309.12	9,356.19
	\$17,100.23	\$52,592.66	\$69,692.89	\$54,858.70	\$14,834.19

TABLE XXIII
UNIVERSITY FARM REPAIR FUNDS

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
100. Farm Campus Repairs.....	\$93.78	\$ 2,500.00	\$ 2,593.78	\$1,683.57	\$ 910.21
101. Farm Repairs.....		10,000.00			
102. Transferred from Book Store.....		664.40			
103. Miscellaneous Receipts.....		1,555.37	12,219.77	9,323.97	2,895.80
104. Farm Sewers Balance Restored.....		147.85	147.85	145.92	
105. Canceled by State Auditor				1.93	
106. Dining Hall Repairs.....		5,000.00	5,000.00	4,983.90	16.10
107. Grading Larpenteur Avenue, Balance Restored.....		51.75	51.75	2.63	
108. Balance Canceled by State Auditor .				49.12	
109. Farm Greenhouse Repairs, Balance Restored.....		292.74	292.74	85.51	
110. Balance Canceled by State Auditor.				207.23	
111. Home Building Repaired.....	11.42		11.42		
112. Canceled by State Auditor.....				11.42	
113. Itasca State Park Repairs, Balance Restored.....		45.48	45.48		
114. Balance Canceled by State Auditor..				45.48	
	<u>\$105.20</u>	<u>\$20,257.59</u>	<u>\$20,362.79</u>	<u>\$16,540.68</u>	<u>\$3,822.11</u>

TABLE XXIV

SUB-STATION SUPPORT FUNDS

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1911
115. Crookston School Support.....	\$210.85	\$20,000.00	.....	.....	.....
116. Station Appropriation.....	.....	10,000.00	.....	.....	.....
117. Receipts from Dining Hall.....	.....	14,330.64	.....	.....	.....
118. Fees.....	.....	750.00	.....	.....	.....
119. Miscellaneous Receipts.....	.....	8,839.92	.....	.....	.....
120. Correctional Entry.....	.....	346.35	.....	.....	.....
121. Paid from University Support by State Auditor.....	.....	751.01	\$55,228.77	\$53,131.46	.....
122. Overdraft Aug. 1, 1911, Crookston Station.....	.....	.....	.....	309.46	\$1,787.85
123. Grand Rapids Support.....	136.23	7,000.00	.....	.....	.....
124. Miscellaneous Receipts.....	.....	7,140.67	14,276.90	13,426.59	850.31
125. Morris Support.....	.....	19,750.00	.....	.....	.....
126. Morris Farm Maintenance.....	105.09	.....	.....	.....	.....
127. Dining Hall Receipts.....	.....	5,618.23	.....	.....	.....
128. Fees.....	.....	525.00	.....	.....	.....
129. Miscellaneous Receipts.....	.....	5,728.69	31,727.01	30,438.51	.....
130. Overdraft, Aug. 1, 1911.....	.....	.....	.....	556.28	732.22
131. Home Economics.....	.....	1,500.00	1,500.00	1,500.00	.....
	\$452.17	\$102,280.51	\$102,732.68	\$99,362.30	\$3,370.38

TABLE XXV

UNIVERSITY BUILDING FUNDS

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
132. Heating Plant.....	\$122,324.59	\$50,000.00	.....	.....	.....
133. Contingent Fund.....	.....	2,000.00	.....	.....	.....
134. Miscellaneous Receipts.....	.....	75.10	\$174,399.69	\$31,710.21	.....
135. Expended on Tunnel Construction.. (\$17,915.06 previously expended on tunnel, total \$33,394.31)	.....	.....	.....	15,477.25	\$127,212.23
136. University Chemistry Building.....	.....	175,000.00	175,000.00	5,249.63	169,750.37
137. University Medical Science Building Alterations.....	.....	25,000.00	25,000.00	8.00	24,992.00
138. Fire-proofing Millard Hall.....	.....	75,000.00	.....	.....	.....
139. Transferred from Old Fire Loss....	5,331.41	.....	.....	838.13	.....
140. Transferred from Old Fire Loss Contents.....	4,558.62	.....	.....	4,311.38	.....
141. Miscellaneous Receipts.....	.....	202.10	.....	.....	.....
142. Recent Fire Loss.....	.....	41,955.58	127,047.71	.....	121,898.20
143. Anatomy Building.....	234,578.63	.....	234,578.63	187,609.37	46,969.26
144. Elliot Hospital Building.....	31,907.59	.....	.....	.....	.....
145. Transferred from Equipment.....	.....	1,462.50	.....	.....	.....
146. Miscellaneous Receipts.....	.....	241.37	33,611.46	33,095.88	515.58
147. General Medical Building.....	253,612.58	.....	253,612.58	192,029.07	61,583.51

TABLE XXV—Continued

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
148. *Elliot Hospital Site.....	.....	\$ 5,630.31	\$ 5,630.31	\$ 264.09	\$5,366.22
149. Campus Extension.....	\$160,362.73	.....	.....	.....	.....
150. Receipts from Tax Collections.....	.....	187,720.09	.....	.....	.....
151. Sale of Certificates.....	.....	64,945.83	413,028.65	.....	.....
152. Certificates Redeemed.....	.....	.....	.....	200,000.00	.....
153. Interest on Certificates.....	.....	.....	.....	14,250.00	.....
154. Engineering Buildings.....	.....	.....	.....	189,477.77	9,300.88
155. University Girls' Dormitory.....	5,653.30	.....	5,653.30	5,036.00	617.30
	\$818,329.45	\$629,232.88	\$1,447,562.33	\$879,356.78	\$568,205.55

*The Elliot Hospital Site Fund was created by subscription and not previously carried on the University regular books. Since August 1st, 1911 the amount has been turned in to the State Treasurer and the two retaining walls previously charged to Campus Rents Fund will eventually be charged to this fund.

TABLE XXVI

UNIVERSITY FARM BUILDING FUNDS

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
156. Farm Girls' Dormitory.....	.....	\$ 50,000.00	\$ 50,000.00	\$47,400.05	\$ 2,599.95
157. Farm Mechanical Building.....	\$98,800.00	160,000.00	.....	.....	.....
158. Contractor's Check Forfeited.....	.....	152.82	258,952.82	36,632.59	.....
159. Temporary payment advanced, etc. Crookston Science Building to be reimbursed Aug. 1, 1912.....	.....	.....	.....	989.50	221,330.73
160. Hog House.....	.....	2,500.00	2,500.00	.....	2,500.00
161. Horse Barn.....	.....	5,000.00	5,000.00	4,922.66	77.34
162. Electric Wiring.....	.....	4,000.00	4,000.00	1,711.28	2,288.72
163. Heating Tunnels.....	.....	3,000.00	3,000.00	40.50	2,959.50
164. Power House Repairs.....	.....	14,700.00	14,700.00	154.00	14,546.00
165. Girls' Dormitory Basement.....	.....	3,000.00	3,000.00	2,854.13	145.87
166. Remodeling Barn.....	.....	5,000.00	5,000.00	.....	5,000.00
167. Water Mains.....	937.07	9,000.00	9,937.07	777.12	9,159.95
168. Drill Hall Alterations.....	.....	10,000.00	10,000.00	.....	10,000.00
169. Dairy Hall.....	5,943.28	.....	5,943.28	1,737.83	4,205.45
170. Coal Bunkers.....	5,604.40	.....	5,604.40	2,008.28	3,596.12
171. Agricultural Lands, Balance Restored by Auditor.....	.....	3,238.67	3,238.67	.....	3,238.67

TABLE XXVI—Continued

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
172. Board of Regents Land Balance Re- stored.....	.....	\$2,917.97	\$ 2,917.97	.....	\$2,917.97
173. Dairy Pavilion.....	\$13,612.46	.....	13,612.46	\$10,757.11	2,855.35
174. Water Tower and Tank Balance Re- stored.....	.....	940.04	940.04	857.72	.....
175. Balance Canceled.....	.....	.....	.....	82.32	.....
176. Heating Plant and Hall Balance Re- stored.....	.....	1,183.94	1,183.94	1,170.00	.....
177. Balance Canceled.....	.....	.....	.....	13.94	.....
	<u>\$124,897.21</u>	<u>\$274,633.44</u>	<u>\$399,530.65</u>	<u>\$112,109.03</u>	<u>\$287,421.62</u>

TABLE XXVII
UNIVERSITY EQUIPMENT FUNDS

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
178. Fire Loss Laboratory Medical Science.	.....	\$ 2,442.72	\$ 2,442.72	.....	\$ 2,442.72
179. University Medical Building Equip- ment.....	\$59,887.50	.....	59,887.50	\$ 1,503.04	58,384.46
180. Anatomy Building Equipment.....	67,200.00	.....	67,200.00	861.04	66,338.96
181. Elliot Hospital Equipment.....	42,354.15	.....	42,354.15	26,523.47	.....
182. Transferred to Building.....	.....	.....	.....	1,462.50	14,368.18
183. College of Dentistry Equipment.....	.....	20,000.00	20,000.00	289.00	19,711.00
184. Engineering Building Equipment.....	32,000.00	.....	32,000.00	13,360.85	18,639.15
185. Engineering Laboratory Equipment...	27,355.33	.....	.....	.....	.....
186. Miscellaneous Receipts.....	.....	59.00	27,414.33	18,821.58	8,592.75
187. Bacteriological Laboratory Equipment Balance Restored.....	.....	299.95	299.95	194.20	105.75
	\$228,796.98	\$22,801.67	\$251,598.65	\$63,015.68	\$188,582.97

TABLE XXVIII
UNIVERSITY FARM EQUIPMENT FUNDS

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
188. Live Stock.....	\$4,000.00	\$4,000.00	.....	.....	.....
189. Balance Restored.....	.....	1,710.08	.....	.....	.....
190. Miscellaneous Receipts.....	.....	1,957.13	\$11,667.21	\$8,607.94	\$3,059.27
191. Farm Girls' Dormitory Equipment....	3,862.45	2,000.00	5,862.45	3,710.90	2,151.55
192. Main Building Equipment Balance					
Restored.....	.....	96.31	96.31	.....	.....
193. Canceled by Auditor.....	.....	.....	.....	96.31	.....
	<u>\$7,862.45</u>	<u>\$9,763.52</u>	<u>\$17,625.97</u>	<u>\$12,415.15</u>	<u>\$5,210.82</u>

TABLE XXIX

NORTHWEST SCHOOL AND EXPERIMENT STATION, CROOKSTON

BUILDINGS AND IMPROVEMENTS

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
194. New Cottages.....		\$10,000.00	\$10,000.00	\$10,000.00	.....
195. Industrial Building.....		10,000.00	.....	.....	.....
196. Balance Restored.....		170.90	10,170.90	10,156.31	.....
197. Canceled by Auditor.....		14.59	.....
198. School Buildings.....		1,500.00	1,500.00	1,336.42	\$163.58
199. Superintendent's Dwelling.....		900.00	900.00	900.00	.....
200. Sidewalks and Curbing.....		1,500.00	1,500.00	1,496.57	.....
201. Canceled by Auditor.....		3.43	.....
202. Grading and Grounds.....		1,500.00	1,500.00	1,498.04	.....
203. Canceled by Auditor.....		1.96	.....
204. Spur Track.....		1,600.00	1,600.00	1,600.00	.....
205. Trees and Shrubberty.....		200.00	200.00	94.25	105.75
206. Water Works.....		1,000.00	.....	.....	.....
207. Miscellaneous Receipts.....		54.28	1,054.28	1,053.57	.....
208. Canceled by Auditor.....	71	.....
209. Well and Pump.....		1,000.00	1,000.00	999.60	.....
210. Canceled by Auditor.....	40	.....
211. Crookston Drainage Balance Restored.....		137.32	137.32	77.22	.....
212. Canceled by Auditor.....		60.10	.....

TABLE XXIX—Continued

		Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
213.	School Building Equipment Balance					
	Restored.....		\$ 221.16	\$ 221.16	\$ 59.05	.....
214.	Canceled by Auditor.....				162.11	.....
215.	Dormitory and Equipment Balance					
	Restored.....		75.15	75.15	74.78	.....
216.	Canceled by Auditor.....				.37	.....
217.	Library and Drill Hall Balance Re-					
	stored.....		13.94	13.94	13.38	.....
218.	Canceled by Auditor.....				.56	.....
219.	Root Cellar Balance Restored.....		23.04	23.04	23.00	.....
220.	Canceled by Auditor.....				.04	.....
221.	Dairy Barn.....		2,500.00	2,500.00	2,499.30	.....
222.	Canceled by Auditor.....				.70	.....
223.	Horse Barn.....		2,000.00	2,000.00	1,998.01	.....
224.	Canceled by Auditor.....				1.99	.....
225.	Sheep Fold.....		1,500.00	1,500.00	1,499.93	.....
226.	Canceled by Auditor.....				.07	.....
227.	Silo.....		500.00	500.00	499.44	.....
228.	Canceled by Auditor.....				.56	.....
229.	Poultry House.....		2,000.00	2,000.00	1,998.28	.....
230.	Canceled by Auditor.....				1.72	.....
231.	Farm House.....		1,500.00	1,500.00	1,439.33	\$60.67
232.	Painting.....		350.00	350.00	296.00	54.00

TABLE XXIX—Continued

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
233. Fencing.....		\$540.00	\$540.00	\$539.99	.....
234. Canceled by Auditor.....				.01	.....
235. Bridges.....		200.00	200.00	160.46	\$39.54
236. Slaughter House.....	\$114.28		114.28	113.81	.....
237. Canceled by Auditor.....				.47	.....
	\$114.28	\$40,985.79	\$41,100.07	\$40,676.53	\$423.54

TABLE XXX

NORTH CENTRAL EXPERIMENT STATION, GRAND RAPIDS

BUILDINGS AND IMPROVEMENTS

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
238. Drainage.....	\$1,002.21		\$1,002.21	\$ 699.50	\$ 302.71
239. New Well.....		\$1,500.00	1,500.00	1,242.59	257.41
240. Dairy Building Balance Restored.....		63.57	63.57	.....	.....
241. Canceled by Auditor.....				63.57	.....
242. Creamery Experiment, etc.....		3,000.00	3,000.00	214.75	2,785.25
243. Barn Silo.....		4,000.00	4,000.00	4,000.00	.....
	\$1,002.21	\$8,563.57	\$9,565.78	\$6,220.41	\$3,345.37

TABLE XXXI

WEST CENTRAL SCHOOL AND EXPERIMENT STATION, MORRIS

BUILDINGS AND IMPROVEMENTS

	Balance Aug. 1, 1911	Received	Total	Expended	Balance July 31, 1912
244. School Improvements.....	\$386.06	\$ 2,000.00	.....	.....	.....
245. Miscellaneous Receipts.....	122.00	\$ 2,508.06	\$ 1,770.75	\$ 737.31
246. Girls' Dormitory.....	50,000.00	50,000.00	36,674.40	13,325.60
247. Heating Plant.....	35,000.00	35,000.00	34,083.15	916.85
248. Horse Barn.....	2,000.00	2,000.00	1,999.88	.....
249. Canceled by Auditor.....12	.....
250. Machine Shed.....	1,000.00	1,000.00	1,000.00	.....
251. Hog, Sheep and Poultry Buildings.....	1,500.00	1,500.00	1,458.91	41.09
252. Cistern.....	1,500.00	1,500.00	1,500.00	.....
253. Cow Barn.....	700.00	700.00	268.97	431.03
254. Laundry Basement.....	400.00	400.00	363.56	36.44
255. Moving Cottages.....	1,000.00	1,000.00	1,000.00	.....
256. Hospital Repairs.....	100.00	100.00	28.84	71.16
257. Water, Light, and Sewer.....	3,000.00	3,000.00	2,935.75	64.25
258. Fencing.....	1,000.00	1,000.00	206.28	793.72
259. Drainage.....	1,000.00	1,000.00	231.73	768.27
	\$386.06	\$100,322.00	\$100,708.06	\$83,522.34	\$17,185.72

TABLE XXXII
NORTH CENTRAL SCHOOL AND EXPERIMENT STATION, MORRIS

EQUIPMENT				
	Balance Aug. 1, 1911	Received	Total	Expended
260.	Equipment and Sidewalk.....	\$6,500.00	\$6,500.00	\$3,243.90
261.	Building and Equipment.....	2,500.00	2,500.00	2,358.36
262.	Machinery.....	500.00	500.00	500.00
263.	Horses.....	1,000.00	1,000.00	1,000.00
264.	Live Stock.....	1,500.00	.....	.....
265.	Miscellaneous Receipts.....	511.24	2,011.24	1,792.60
266.	Dining Hall and Kitchen Equipment..	2,500.00	2,500.00	1,369.36
267.	Library and Office Equipment.....	1,500.00	1,500.00	1,060.17
	.....	\$16,511.24	\$16,511.24	\$11,324.39
				\$5,186.85

UNCLASSED				
	Balance Aug. 1, 1911	Received	Total	Expended
268.	Agricultural Book Store Transfer of Balance.....	\$2,944.98	.....	.....
269.	Miscellaneous Receipts.	12,318.18	\$ 15,263.16	\$10,005.75
270.	Students' Reserve Fund, formerly credited to this fund by mistake; transferred to Repair Fund.....	.....	.....	\$664.40
				\$ 4,593.01

TABLE XXXIV

RECEIPTS CREDITED TO UNIVERSITY SUPPORT FUNDS

271.	Interest on Principal Derived from Sale of Swamp Lands.....	\$ 10,968.72
272.	Interest on Investment, Land Grant of 1863.....	57,328.44
273.	Replacement of Advance of 23-100 Mill Tax made during last fiscal year and charged to Support Fund by State Auditor in August of 1911.....	100,000.00
274.	Contingent Fund Erroneously Charged to Support Fund, later Charged to Contingent Funds.....	12,800.00
275.	Students' Fees, University.....	184,380.86
276.	Fees, Department of Agriculture.....	19,287.58
277.	Miscellaneous Receipts, Agriculture.....	26,533.54
278.	Miscellaneous Receipts, Agricultural Experiment Station.....	5,165.15
279.	University Miscellaneous Receipts.....	16,376.70
280.	Dental Infirmary.....	15,806.10
281.	Fees, Sanford Hall.....	27,637.12
282.	Fees, Shevlin Hall.....	11,695.06
283.	Fees, Agriculture Dining Hall.....	60,529.49
284.	Received from Government.....	75,000.00
285.	Interest on Bank Deposits.....	200.73
287.	Refunds (Salary Checks Canceled).....	167.66
		<hr/>
		\$623,877.15

In closing, I wish to thank you, Mr. President, for your support and to express to the Faculty my appreciation of their co-operation.

Respectfully submitted,

G. H. HAYES, *Comptroller*

UNIVERSITY OF ILLINOIS-URBANA



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